

FIG. 1

206010" 22500660

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2060T0' 22500660

asset
Help

Airplane Parameters

44 Airplane application

Maximum Takeoff Weight

Number of engines

Refused takeoff speed

Stage Noise

db delta

AP acoustic level

Max GW/Eng

Max total thrust/Eng

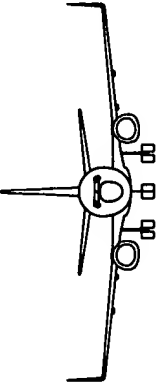
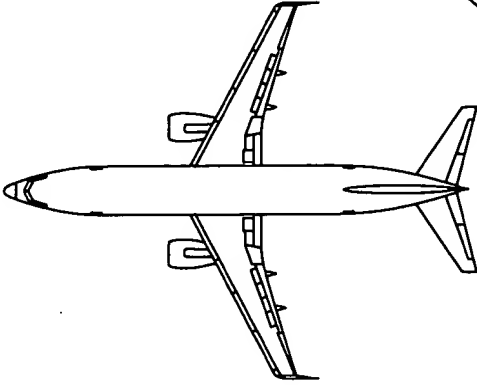
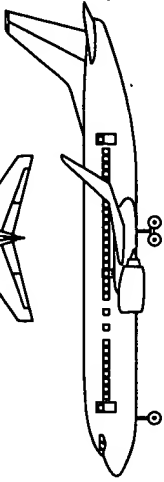
Thrust/GW ratio

Airplane Type

Number of Passengers

Range

1	XXXXXX.	LB
X	XXXXXX.	KTS
XXX.		
X		
X.		DB
XXX.		DB
XXXXXXXX.		LB
XXXXXX.		LB
X.XX		
XXXXXX XXXX		
XXX.		
XXXXX.		NM

ASSET Main Module

FIG. 3



General:

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206010-22500660

Configuration		ASSET EPGDS Method	
Body CL to O/B Engine CL	X.XX		N
Side-of-Body to I/B Engine CL	XXX.XX		N
Side-of-Body to O/B Engine CL	X.XX		N
Dist. along LE I/B Eng. to Side-of-Body	XXX.XX		N
Dist. along LE O/B Eng. to Side-of-Body	X.XX		N
Dist. from Fwd.E/E Bay to Front Spar BS	X.XX		N
Dist from I/B Eng. to EE Bay	XXX.XX		N
Dist from O/B Eng. to EE Bay	X.XX		N
Length of Main EE Bay	XX.XX		N
H - Lower Lobe Height	XX.XX		N
W1 Cabin Width	XXX.XX		N
W2 Cargo Floor Width	XXX.XX		N
Main E/E Bay Volume	XXX.XX		N
Strut location	XXXX		FT^3
Accessory location	XXXX		

FIG. 5B

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206070" 22500660

AC Electrical Load Characterization	
Number of Fans	X.X
Recirculation Fans	X.X
Number of E/E Cooling Vent Fans	X.X
Number of E/E Cooling Supply Fans	X.X
Number of TRUs	X.X
Number of ACMPs	X.X
Number of Window/Windshield Heaters	X.X
Number of Lavatories	X.X
Number of Wide Body Pumps	X.X
Number of Wide Body Boost Pumps	X.X
Number of Wide Body Override Pumps	X.X
Number of Wide Body Jettison Pumps	X.X
Number of Narrow Body Pumps	X.X
Number of Narrow Body Boost Pumps	X.X
Number of Narrow Body Override Pumps	X.X
Number of Narrow Body Jettison Pumps	X.X

FIG. 6

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AC Load Summary by Flight Phase										
ATA Subsystems	---Passenger Loading---			---Engine Start---			---Taxi Out---			
	(kVA)	(PF)	(kVA)	(PF)	(kVA)	(PF)	(kVA)	(PF)	(kVA)	(PF)
	21 Air Conditioning	X.XX	X.XX	XX.XX	X.XX	XX.XX	X.XX	XX.XX	X.XX	X.XX
	22 Auto Flight	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX
	23 Communications	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX
	24 Electrical Power	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX
	25 Equipment/Furnishings	XX.XX	X.XX	XX.XX	X.XX	XX.XX	X.XX	XX.XX	X.XX	X.XX
	26 Fire Protection	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX
	27 Flight Control	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX
	28 Fuel	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX
	29 Hydraulic Power System	XX.XX	X.XX	XX.XX	X.XX	XX.XX	X.XX	XX.XX	X.XX	X.XX
	30 Ice/Rain Protection	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX
	31 Instruments	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX
	32 Landing Gear	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX	X.XX
Maximum Flight Phase Load < XXX.XX kVA < X.XX PF										
ASSET EPGDS Method										
54										

FIG. 7A

AC Load Summary by Flight Phase									
ATA Subsystems	---Passenger Loading---			---Engine Start---			---Taxi Out---		
	(kVA)	(PF)	(kVA)	(PF)	(kVA)	(PF)	(kVA)	(PF)	
32 Landing Gear	X.XX		X.XX		X.XX		X.XX		
33 Lights	X.XX		X.XX		X.XX		X.XX		
34 Navigation	X.XX		X.XX		X.XX		X.XX		
35 Oxygen	X.XX		X.XX		X.XX		X.XX		
36 Pneumatics	X.XX		X.XX		X.XX		X.XX		
38 Water/Waste	X.XX		X.XX		X.XX		X.XX		
46 E'ectronic Library	X.XX		X.XX		X.XX		X.XX		
48 Airplane Auxiliary Power	X.XX		X.XX		X.XX		X.XX		
52 Doors	X.XX		X.XX		X.XX		X.XX		
57 Folding Wing	X.XX		X.XX		X.XX		X.XX		
73 Engine Fuel Control	X.XX		X.XX		X.XX		X.XX		
74 Ignition	X.XX		X.XX		X.XX		X.XX		
Maximum Flight Phase Load < XXX.XX kVA < X.XX PF									

ASSET EPGDS Method

FIG. 7B

OVERD

BY

DRAFTSMAN

FIG. 7C TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND CLASS SUBEVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS

INVENTOR: BOND, et al.

SN: 09/900,522; FILED 7/6/01

ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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206070" 22500660

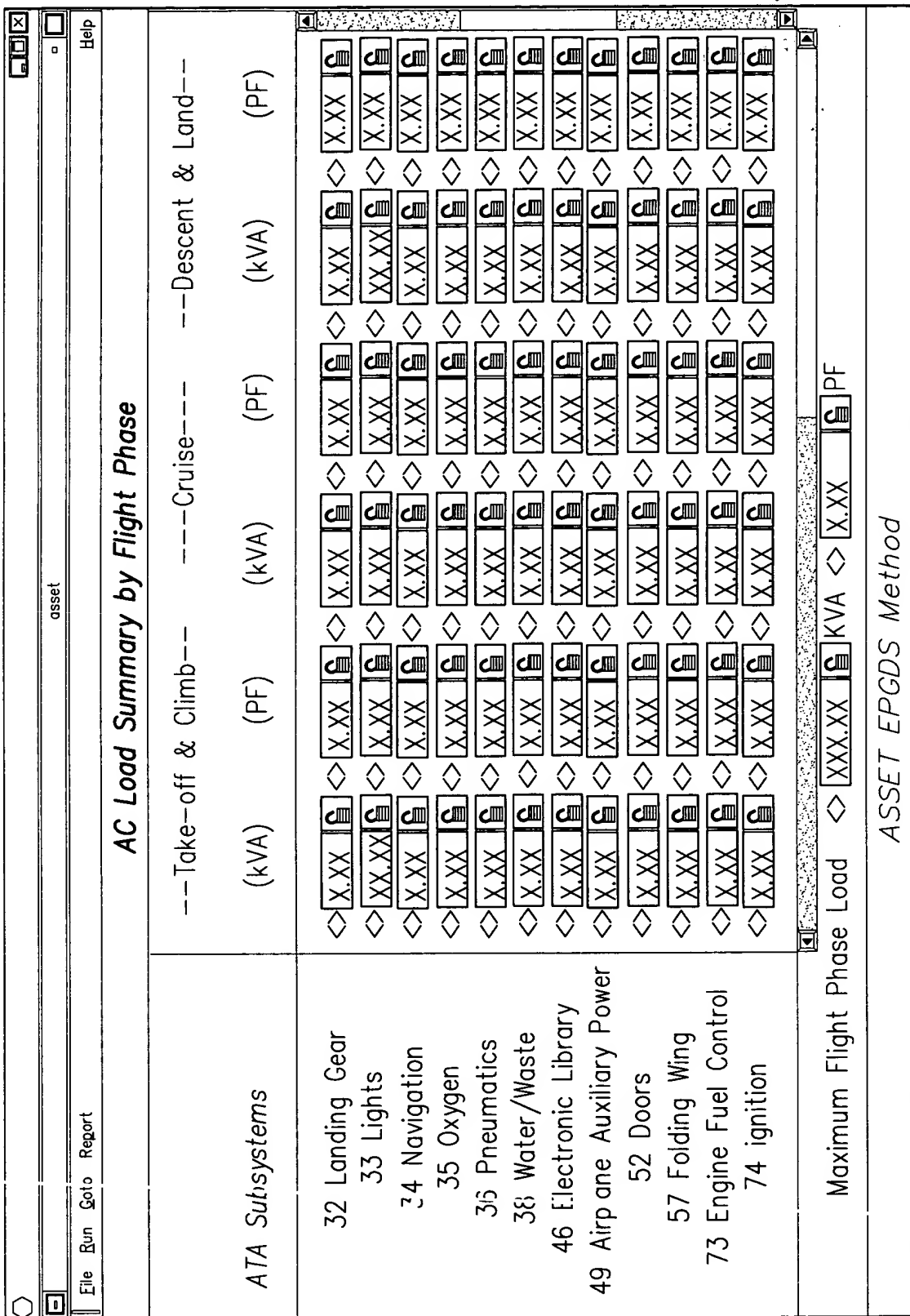


FIG. 7C

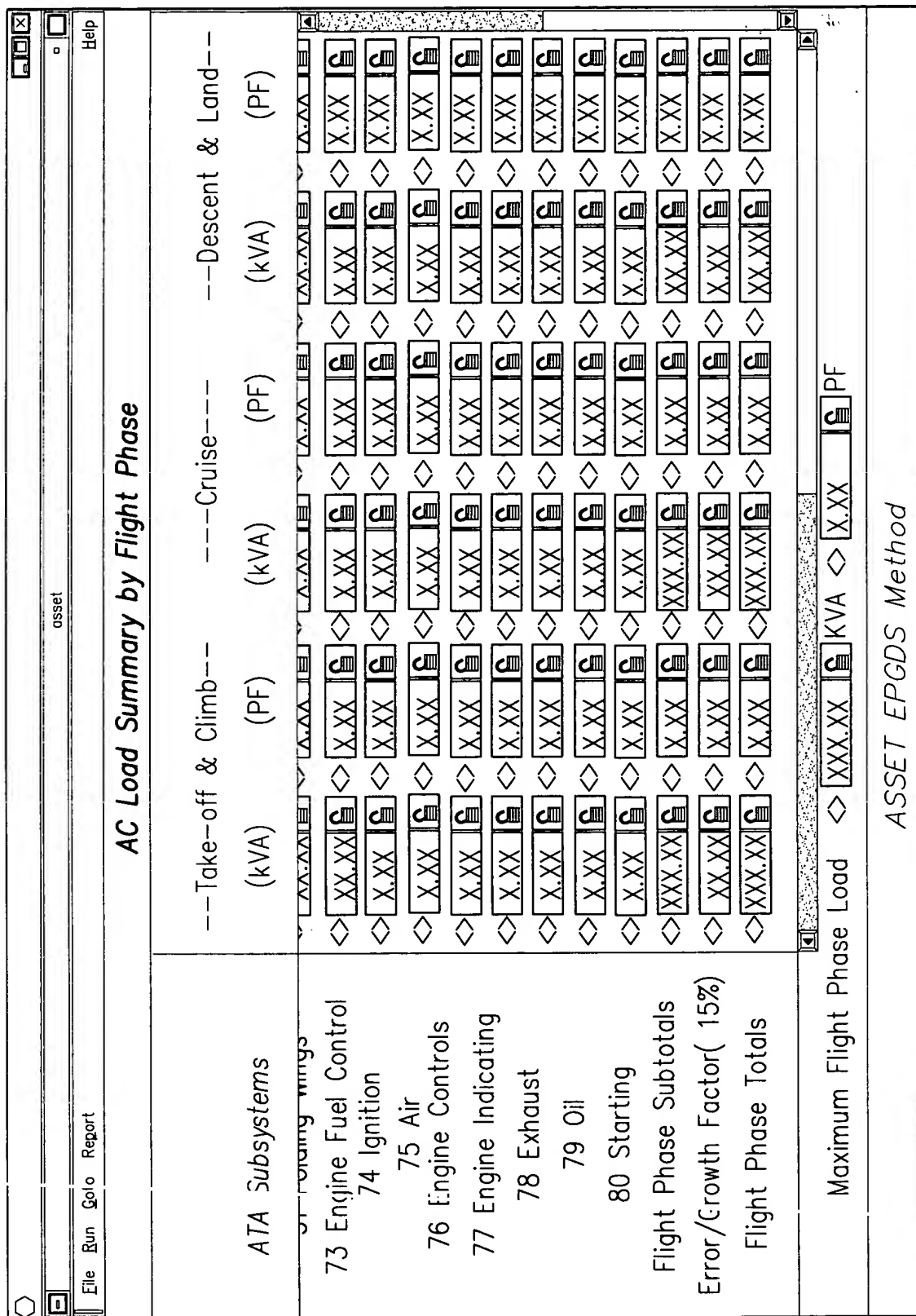


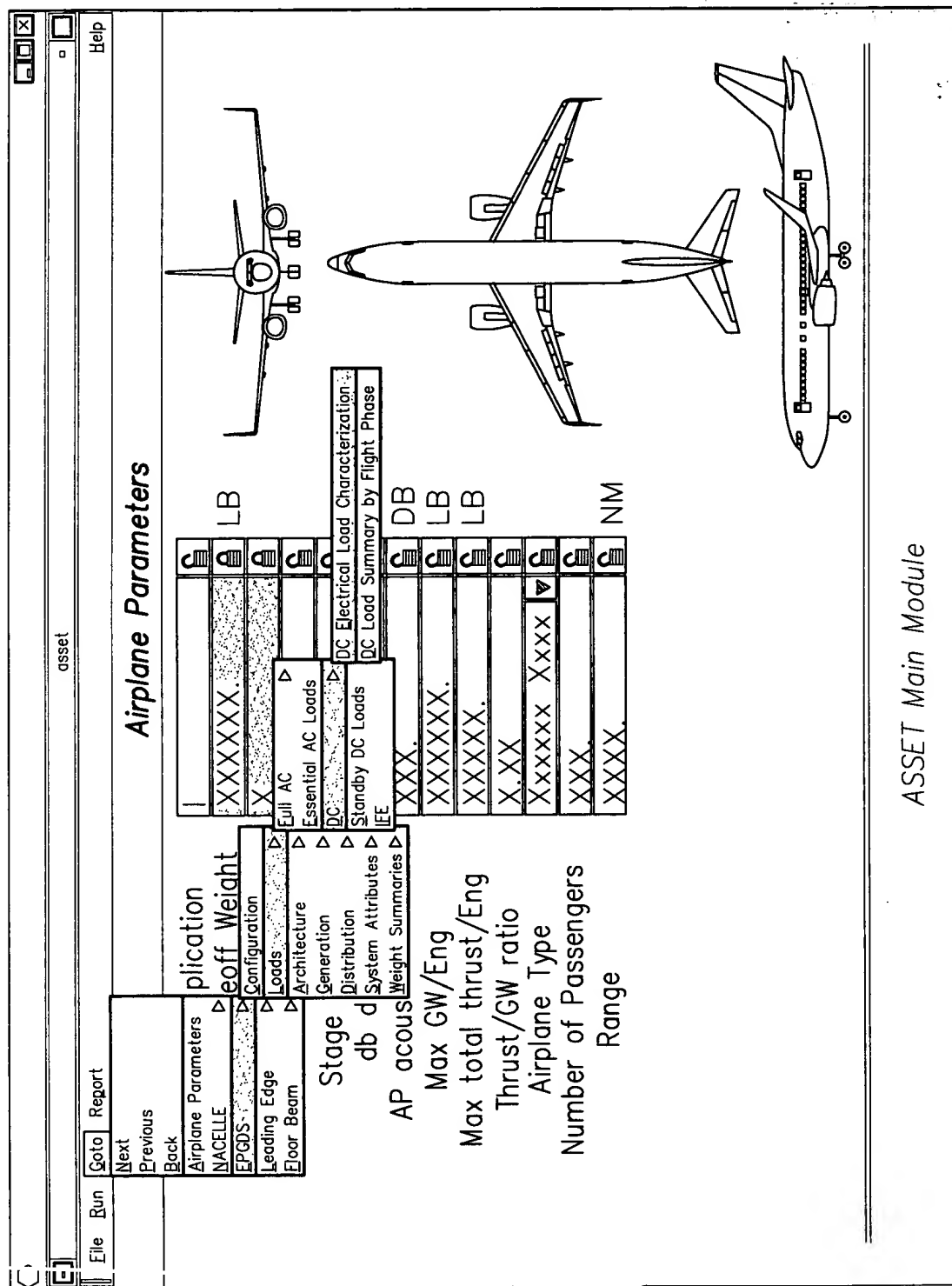
FIG. 7D

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[illegible]

<div> <div> <div></div> <div></div> <div></div> <div></div> </div> <div> <div> <div></div> <div></div> </div> <div> <div>asset</div> <div></div> </div> <div> <div>File</div> <div>Run</div> <div>Goto</div> <div>Report</div> </div> <div> <div></div> <div></div> </div> <div> <div></div> <div>Help</div> </div> </div> </div>									
Essential AC Loads									
		Quantity	Load per Unit			Totals			
Number of Upper Recirculating Fans		X.X		@<>	X.XX	Total Fan Load		XX.XX	KVA
Number of Lower Recirculating Fans		X.X		@<>	X.XX				KVA
Number of E/E Cooling Supply Fans		X.X		@<>	X.XX				KVA
Number of E/E Cooling Vent Fans		X.X		@<>	X.XX				KVA
Number of Hydraulic ACMP Pumps		X.X		@<>	X.XX	Total Pump Load		XX.XX	KVA
Number of Fuel Boost Pumps		X.X		@<>	X.XX				KVA
Number of Fuel Override Pumps		X.X		@<>	X.XX				KVA
Baseline Flight & Electronic, Ice & Rain					Passenger Load		X.XX		KVA
Baseline Flight & Electronic, Electronics		X.XX		@<>	X.XX	Baseline Flight & Electronics Total Load		XX.XX	KVA
		X.XX		@<>	X.XX				KVA
		X.XX		@<>	X.XX				KVA
Subtotal of Essential Loads					Subtotal of Essential Loads		XX.XX		KVA
General Feeder Loss					General Feeder Loss		X.XX		KVA
Total of Essential Loads					Total of Essential Loads		XX.XX		KVA

F/G. ∞



	asset	Help
<i>DC Electrical Load Characterization</i>		
Number of Main Landing Gear Wheels	X.X	
Number of APU Generators	X.X	
Number of Doors	X.X	
Number of Tanks	X.X	

ASSET EPGDS Method

FIG. 10

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DC Load Summary by Flight Phase						
ATA Subsystems	Pass Loading (Amps)	Engine Start (Amps)	Taxi-Out (Amps)	Take-off & Climb (Amps)	Cruise (Amps)	Descent & Land (Amps)
21 Air Conditioning	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
22 Auto Flight	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
23 Communications (IFE, AVOD)	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
24 Electrical Power	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
25 Equipment/Furnishings	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
26 Fire Protection	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
27 Flight Control	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
28 Fuel	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
29 Hydraulic Power System	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
30 Ice/Rain Protection	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
31 Instruments	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
Maximum Flight Phase Direct Current Load				XXX.XX AMPS		
ASSET EPGDS Method						

FIG. 11A

206010-22500650

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND
EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS

INVENTOR: BOND, et al.

SN: 09/900,522; FILED 7/6/01

ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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DC Load Summary by Flight Phase						
ATA Subsystems	Pass Loading (Amps)	Engine Start (Amps)	Taxi-Out (Amps)	Take-off & Climb (Amps)	Cruise (Amps)	Descent & Land (Amps)
31 Instruments	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
32 Landing Gear	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
33 Lights	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
34 Navigation	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
35 Oxygen	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
36 Pneumatics	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
38 Water/Waste	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
46 Electronic Library	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
49 Airplane Auxiliary Power	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
52 Doors	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
57 Folding Wing	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX	XX.XX
Maximum Flight Phase Direct Current Load						XXX.XX AMPS
ASSET EPGDS Method						

FIG. 11B

FIG. 11C

[illegible]

File

Run

Goto

Report

asset

Help

Standby DC Loads

Emergency/Standby Loads

XX.XX

AMPS

60

ASSET EPGDS Method

FIG. 12

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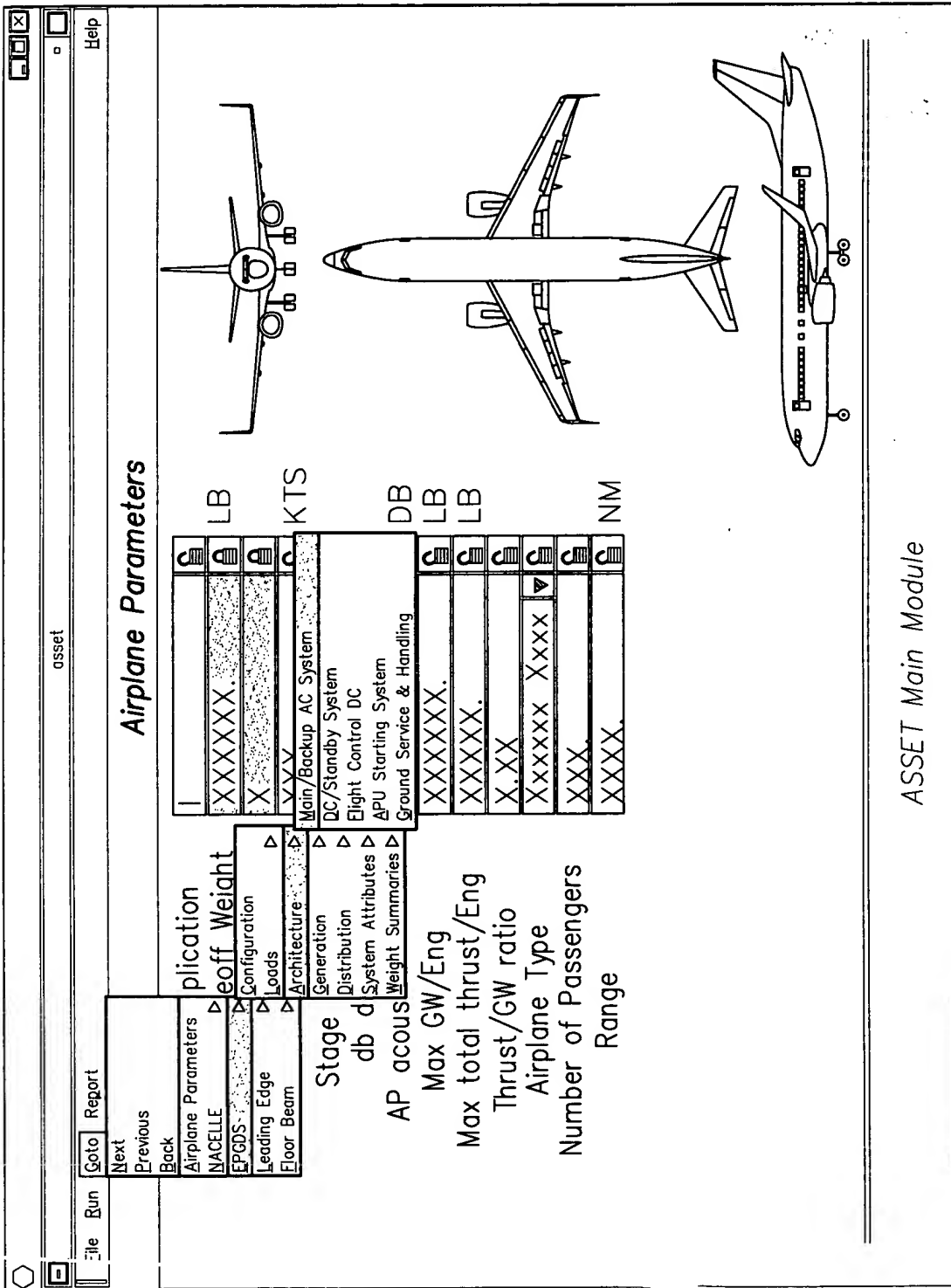


FIG. 14

FIG. 15

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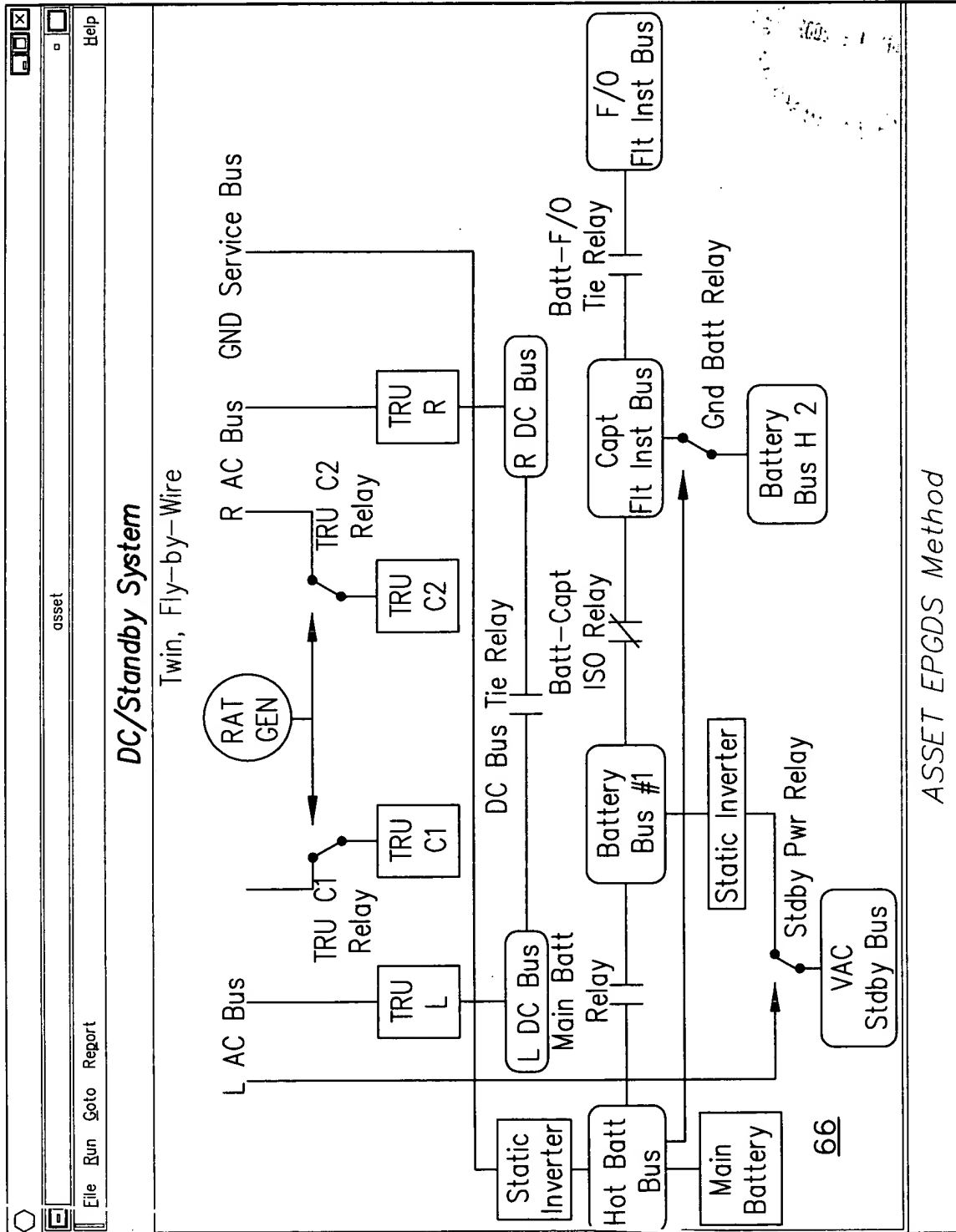


FIG. 16

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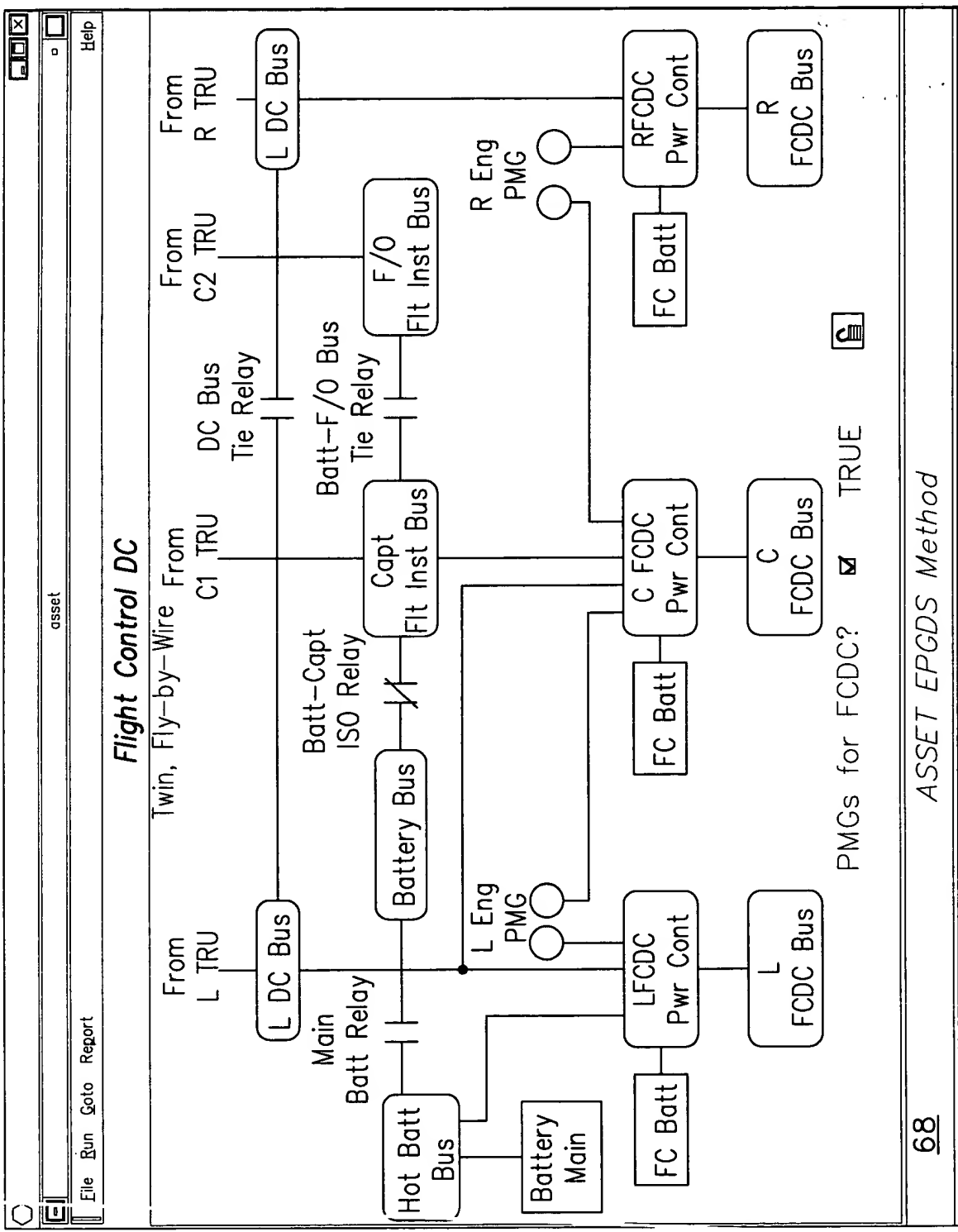


FIG. 17

206010-22500650

ASSET EPGDS Method

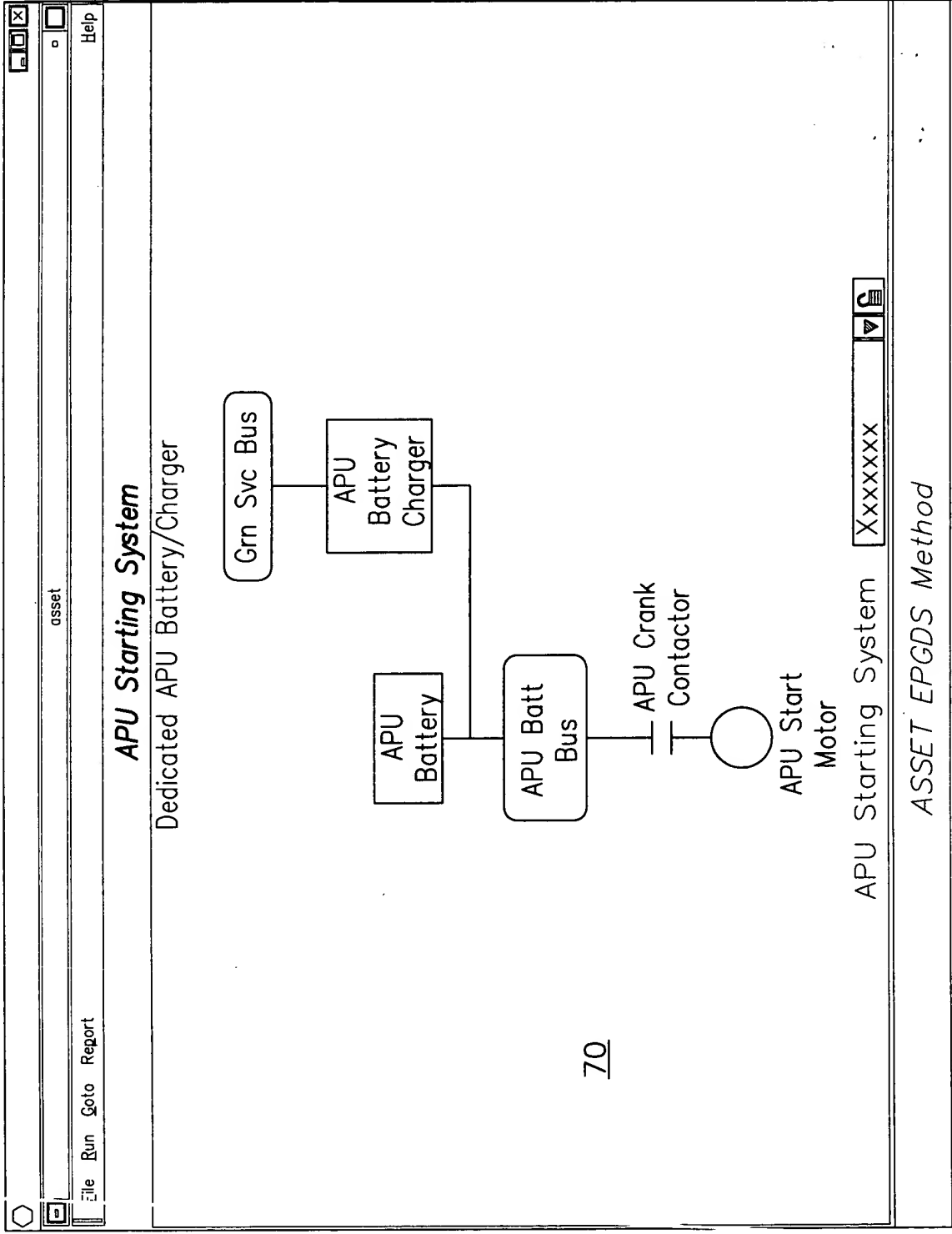


FIG. 18

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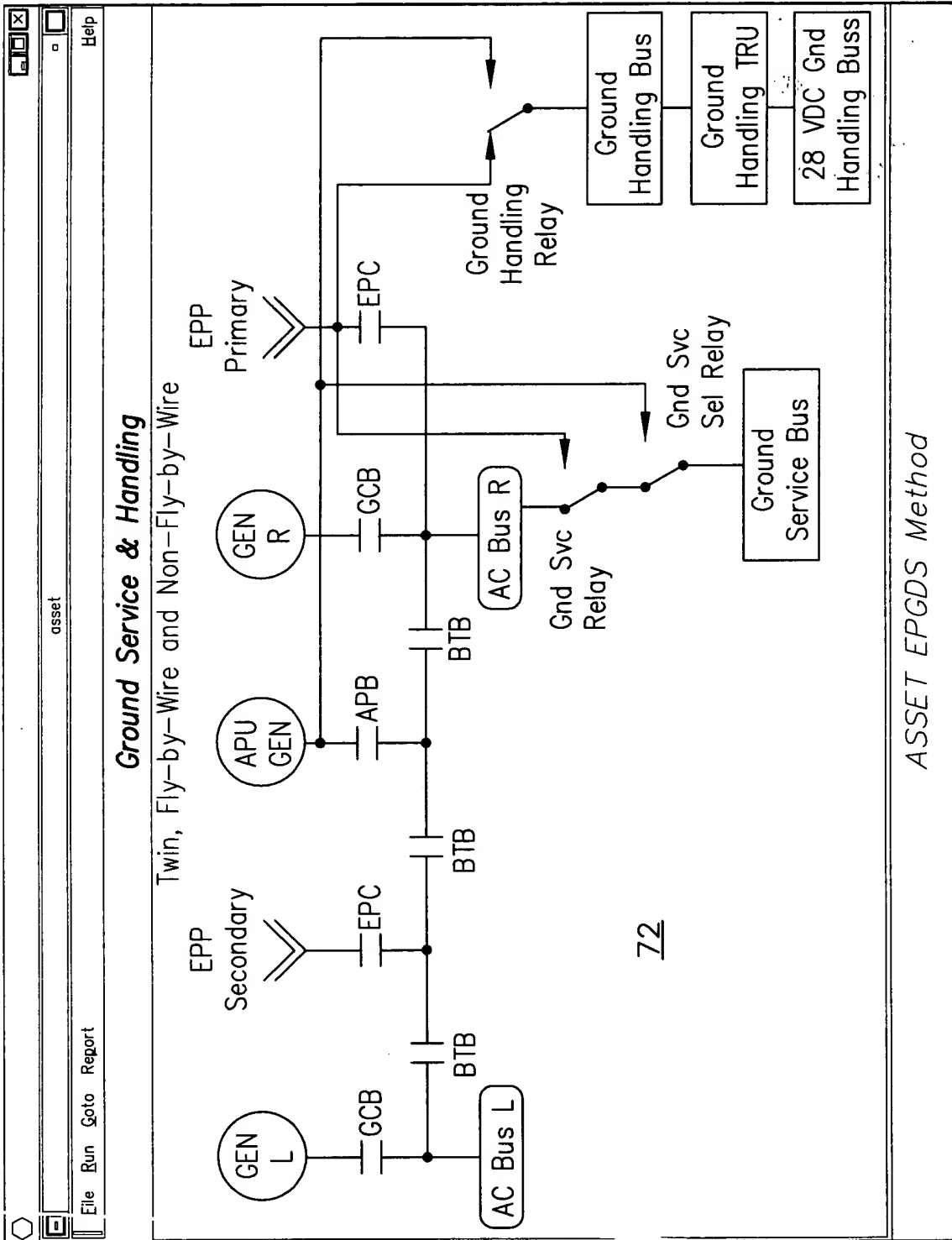


FIG. 19

APPROVED BY CRAFTSMAN

O.G. TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND CLASS EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION S COMPONENTS

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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asset

Help

File Run Goto Report

Next Previous Back

Airplane Parameters

MACELLE

EPCDS

Leading Edge

Floor Beam

Application

Weight

Configuration

Loads

Architecture

Generation

Distribution

System Attributes

Weight Summaries

Stage

db d

AP acous

Max GW/Eng

Max total thrust/Eng

Thrust/GW ratio

Airplane Type

Number of Passengers

Range

Airplane Parameters

XXXXXX.

X

XXX.

LB

KTS

DB

LB

LB

NM

AC Power Generation

APU Generator

Emergency Power Generation

Generator Control Units

Back Up AC Power

Transformer Rectifier Unit (TRU)

Batteries and Battery Chargers

Flight Control DC Power

Transformers

XXXXXX XXXX

XXX.

XXXX.

ASSET Main Module

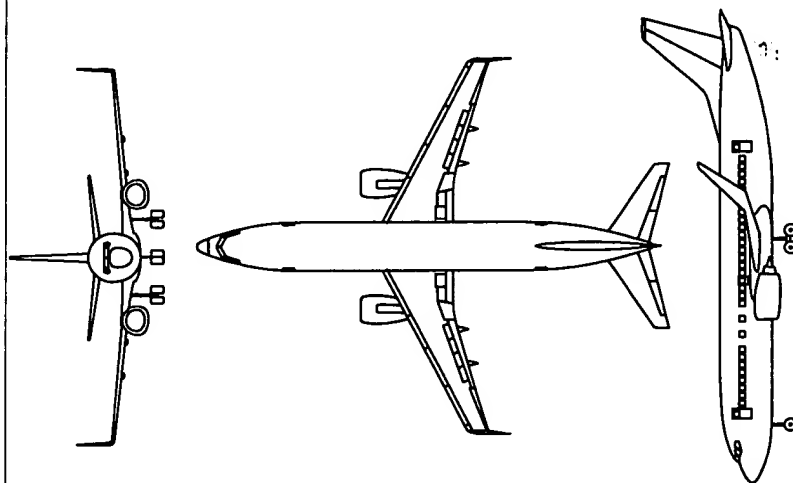


FIG. 20

206010" 22500660

APPROVED	O.G. FIGEVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS	
BY	CLASS	SUBCL
CRAFTSMAN		

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND
INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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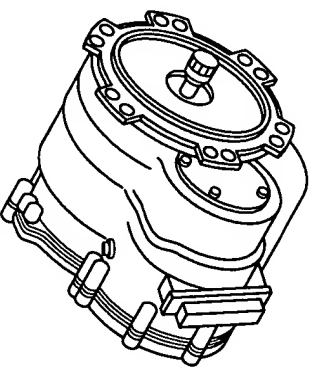
asset		Help	
AC Power Generation			
Generator Input Speed		XXXXX.	RPM
Method of Cooling		Xxxxxx	
Generator Capacity		XX.X	KVA
Main AC Power Generator Weight		XXX.X	LB
VSCF Converter Config.		Xxxxxx	
Maximum Converter Load		X.X	KVA
Main Converter Unit Weight		X.X	LB
		IDG	
ATA	Chapter	Section Title	Motor Controller Load KVA Motor Controller Weight LB
<		<	< X.X
<		<	< X.X
<		<	< X.X
<		<	< X.X
<		<	< X.X
<		<	< X.X
IDG Hydraulics		Xxxxxx	Total Motor Controller Weight XX.X LB
74 ASSET EPGDS Method			

FIG. 21

FIG. 22

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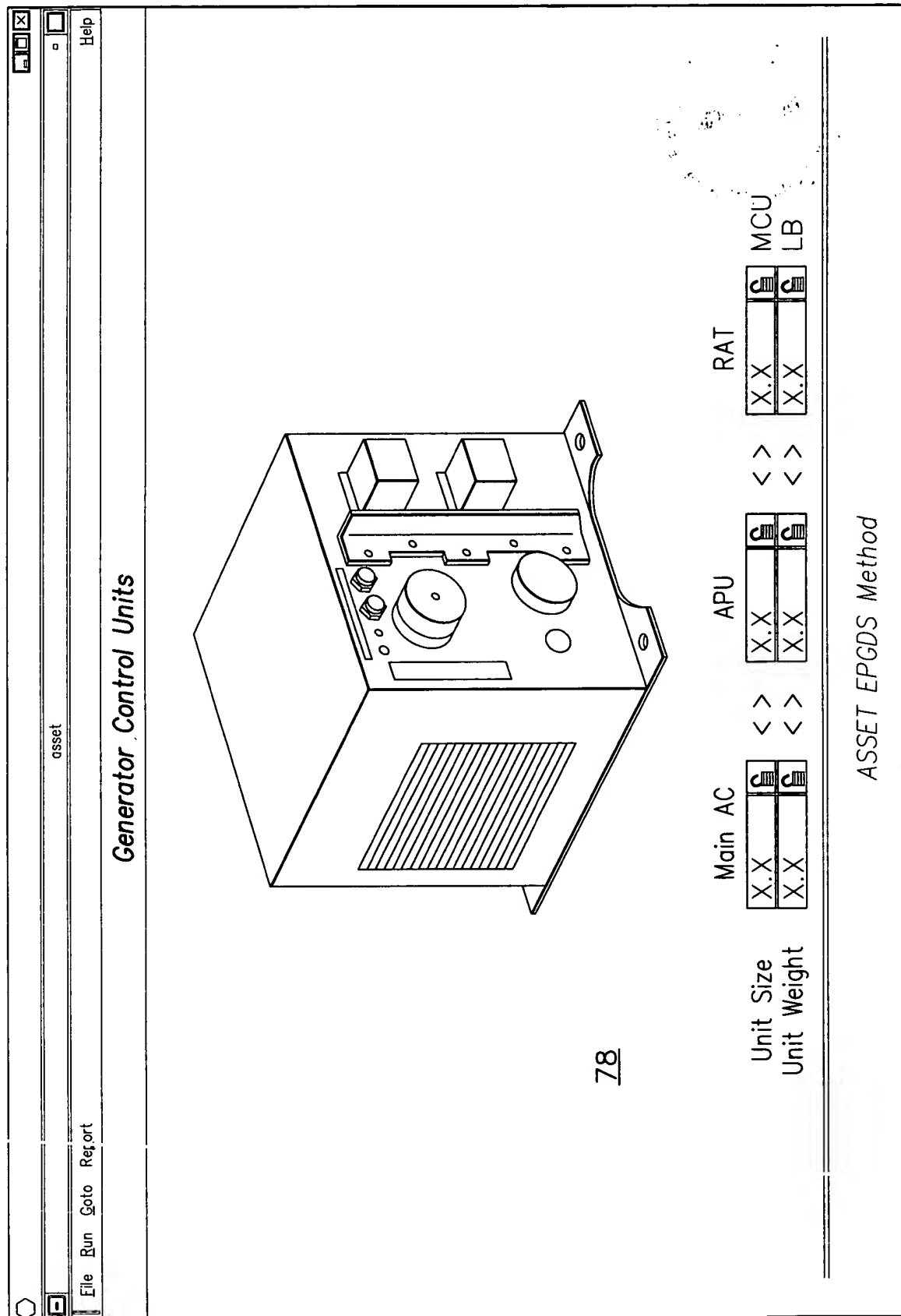


FIG. 23

206010-22500650

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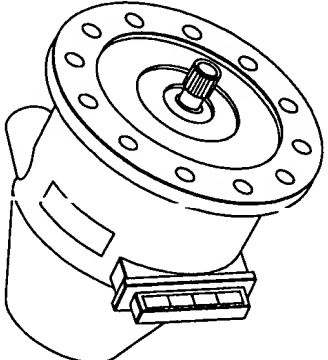
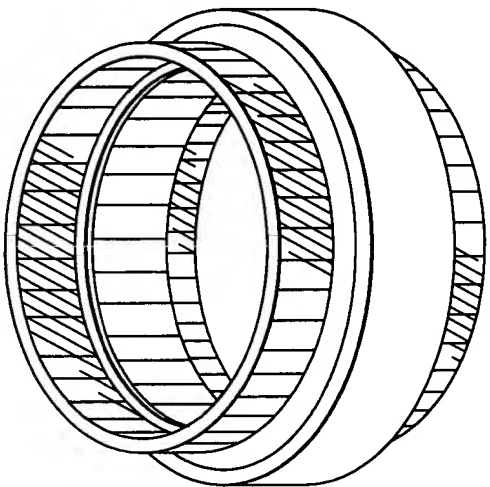
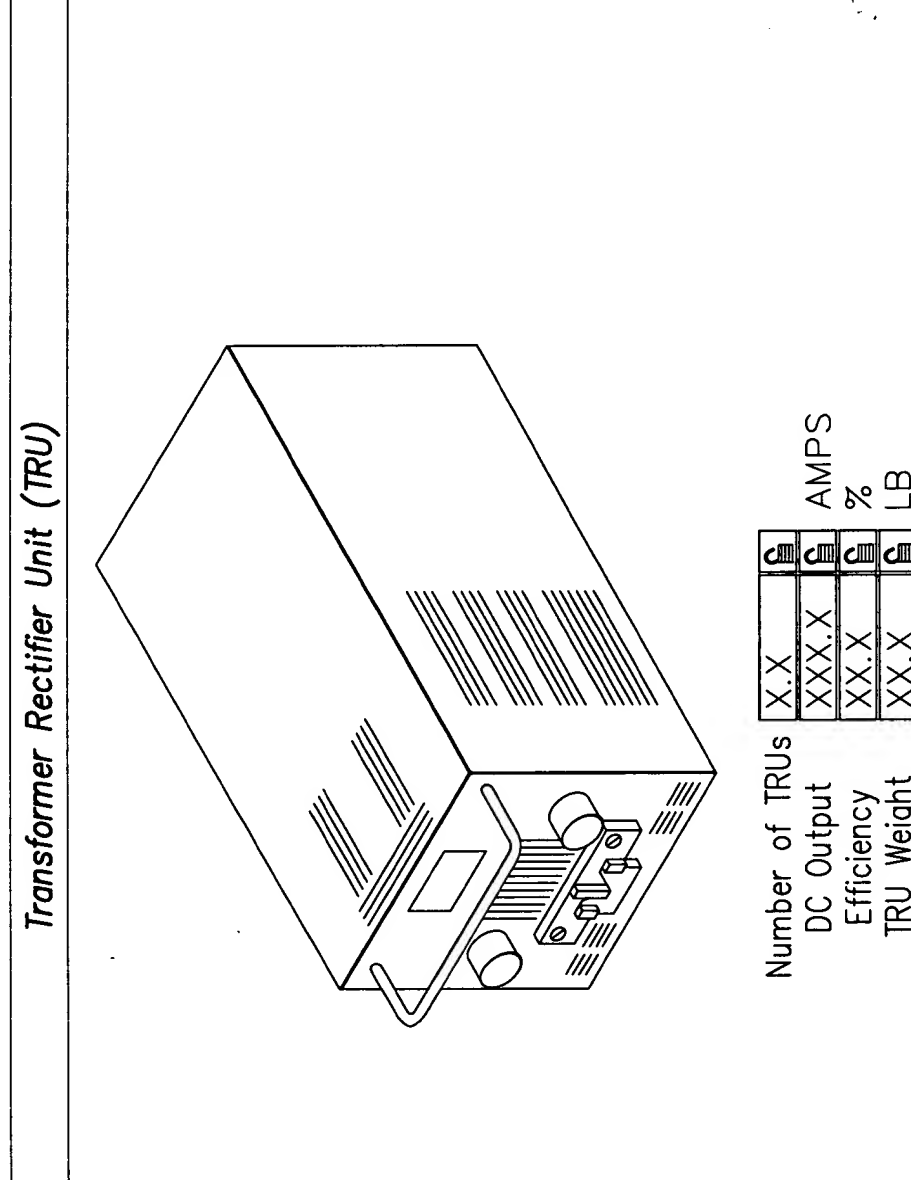
Back Up AC Power																																	
VSCF	PMGs																																
																																	
<table border="1"><tr><td>Generator Type</td><td>Xxxxxxx</td><td>▼</td><td>LB</td></tr><tr><td>Capacity</td><td>XX.X</td><td>▼</td><td>LB</td></tr><tr><td>Cooling Method</td><td>Xxxxxxx</td><td>▼</td><td>LB</td></tr><tr><td>Input speed</td><td>XXXXX.X</td><td>▼</td><td>LB</td></tr><tr><td>Generator Weight</td><td>XX.X</td><td>▼</td><td>LB</td></tr></table>	Generator Type	Xxxxxxx	▼	LB	Capacity	XX.X	▼	LB	Cooling Method	Xxxxxxx	▼	LB	Input speed	XXXXX.X	▼	LB	Generator Weight	XX.X	▼	LB	<table border="1"><tr><td>Number/Engine</td><td>X</td><td>▼</td><td>LB</td></tr><tr><td>PMG Configuration</td><td>Xxxxxxx</td><td>▼</td><td>LB</td></tr><tr><td>PMG Unit Weight</td><td>X.X</td><td>▼</td><td>LB</td></tr></table>	Number/Engine	X	▼	LB	PMG Configuration	Xxxxxxx	▼	LB	PMG Unit Weight	X.X	▼	LB
Generator Type	Xxxxxxx	▼	LB																														
Capacity	XX.X	▼	LB																														
Cooling Method	Xxxxxxx	▼	LB																														
Input speed	XXXXX.X	▼	LB																														
Generator Weight	XX.X	▼	LB																														
Number/Engine	X	▼	LB																														
PMG Configuration	Xxxxxxx	▼	LB																														
PMG Unit Weight	X.X	▼	LB																														
ASSET EPGDS Method																																	
80																																	

FIG. 24

Transformer Rectifier Unit (TRU)



Number of TRUs	DC Output	Efficiency	TRU Weight
X.X	XXX.X	XX.X	XX.X

AMPS
%
LB

FIG. 25

Batteries and Battery Chargers											
Batteries					Battery Chargers						
Nominal Capacity		XX.X		AMP-HRS		Output Capacity		XX.X		AMPS	
Battery Weight		XXX.X		LB		Battery Charger Weight		XX.X		LB	
<hr/>											
Nominal Capacity		XX.X		AMP-HRS		Output Capacity		XX.X		AMPS	
Battery Weight		XXX.X		LB		Battery Charger Weight		XX.X		LB	
<hr/>											
ASSET EPCDS Method											

FIG. 26

[illegible]

<i>Flight Control DC Power</i>			
Power Supply Assemblies (PSAs)			
Output Power	XXX.X	WATTS	
Converter Architecture	Xxxx Xxxxxxxv		
PSA Cabinet Weight	XX.X	LB	
		Number of Dedicated Batteries	X
		PSA Battery Unit Weight	XX.X
			LB

ASSET EPGDS Method

FIG. 27

206070 22600560

INVENTOR: BOND, et al.
CLASS: 370
DRAFTSMAN

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND
EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS
INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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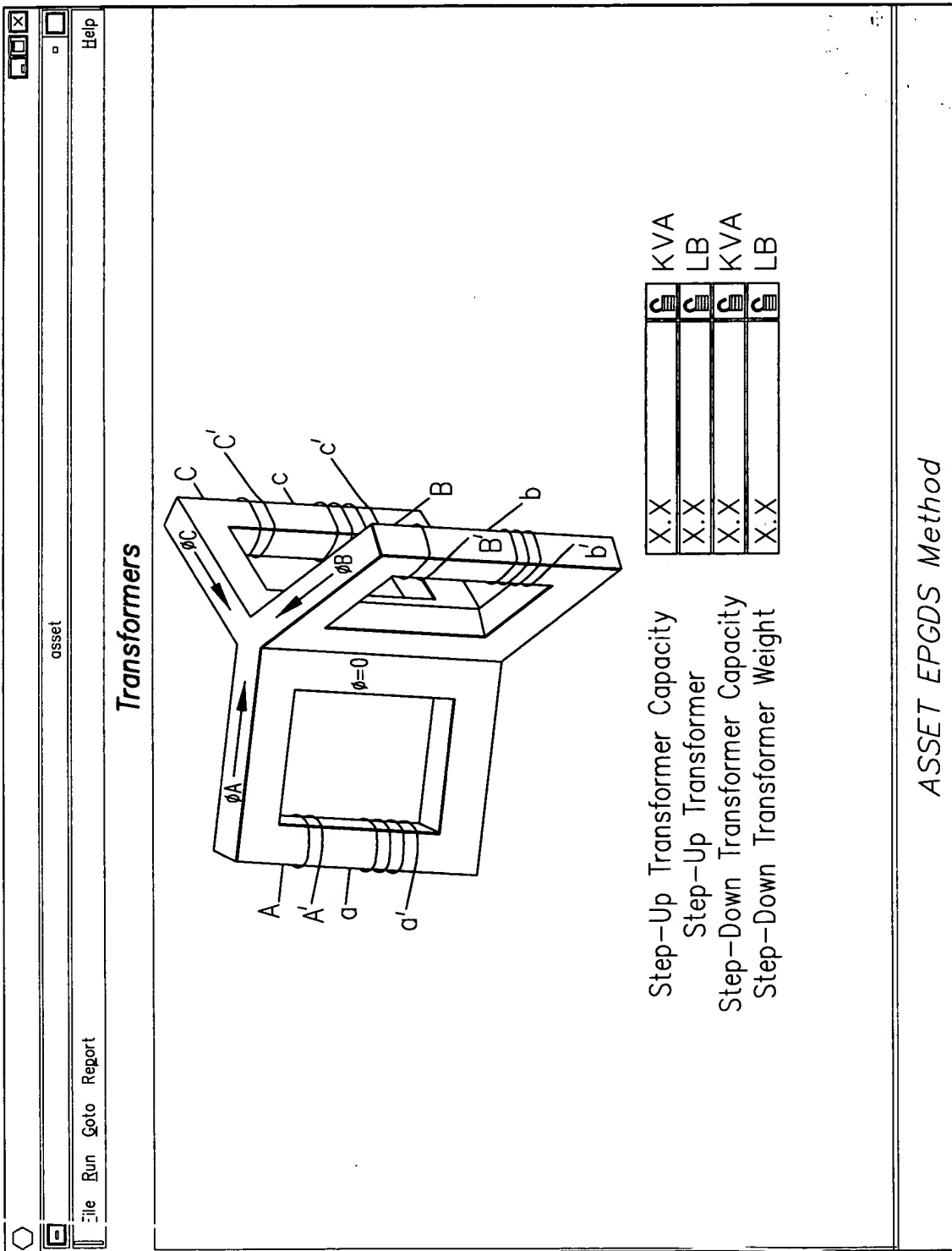


FIG. 28

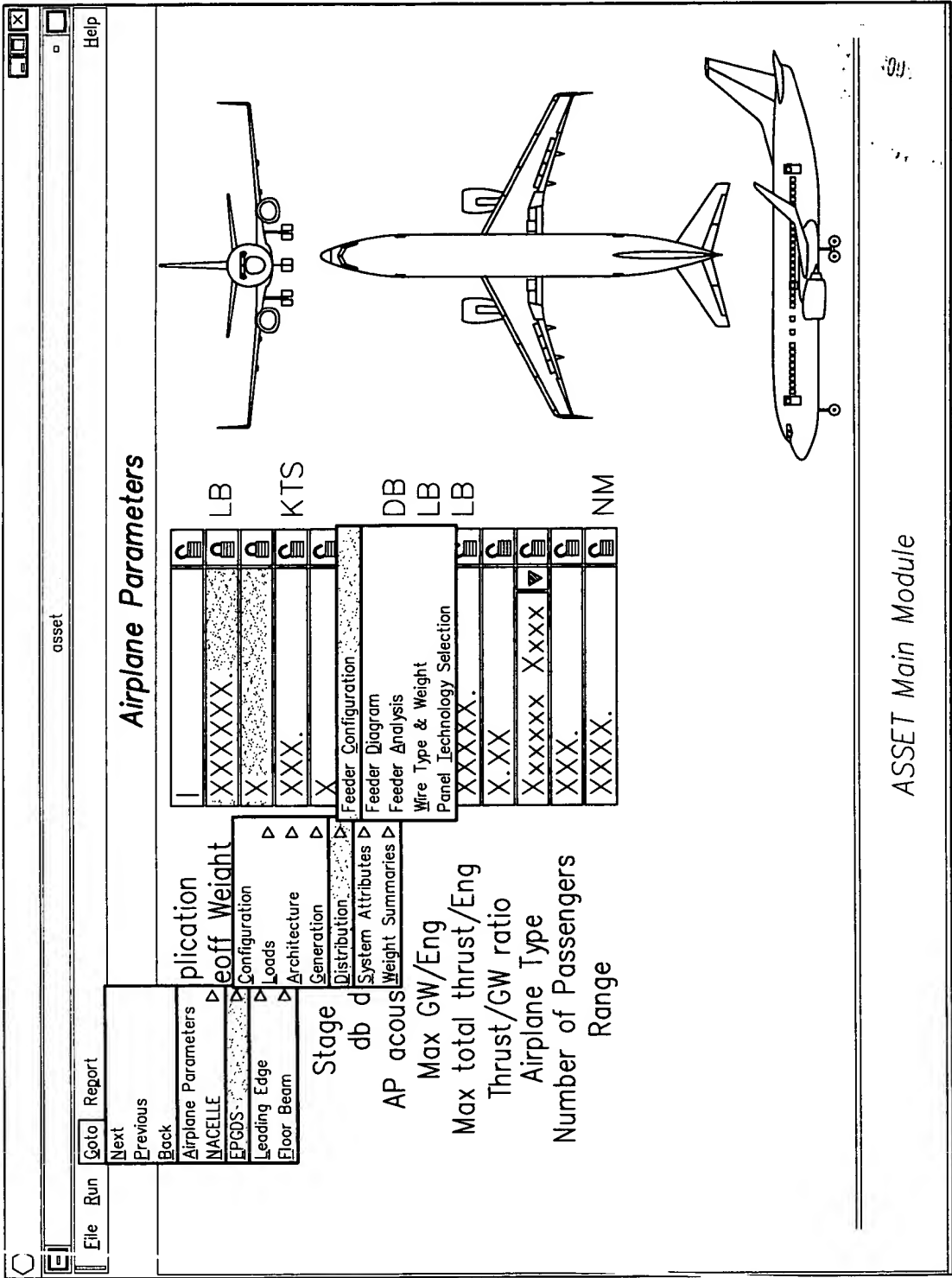


FIG. 29

206010-22900660

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File Run Goto Report

asset

Help

Feeder Configuration

Show Data for:

Feeder 1:	< >	X-Xxxx x/Xxxx	
Feeder 2:	< >	X X-Xxxx x/Xxxx	
Feeder 3:	< >	X X-Xxxx x/Xxxx	
Feeder 4:	< >	X X-Xxxx x/Xxxx	
Feeder 5:	< >	Xxxx	

Bundle Cross-Sections

	3-Wire		3-Wire w/Spwr		2 3-Wire		6-Wire w/Spwr		Blank
	3-Wire w/Ntrl		3-Wire w/Ntrl w/Spwr		2 3-Wire w/Ntrl w/Spwr		6-Wire w/Ntrl		

ASSET EPGDS Method

FIG. 30

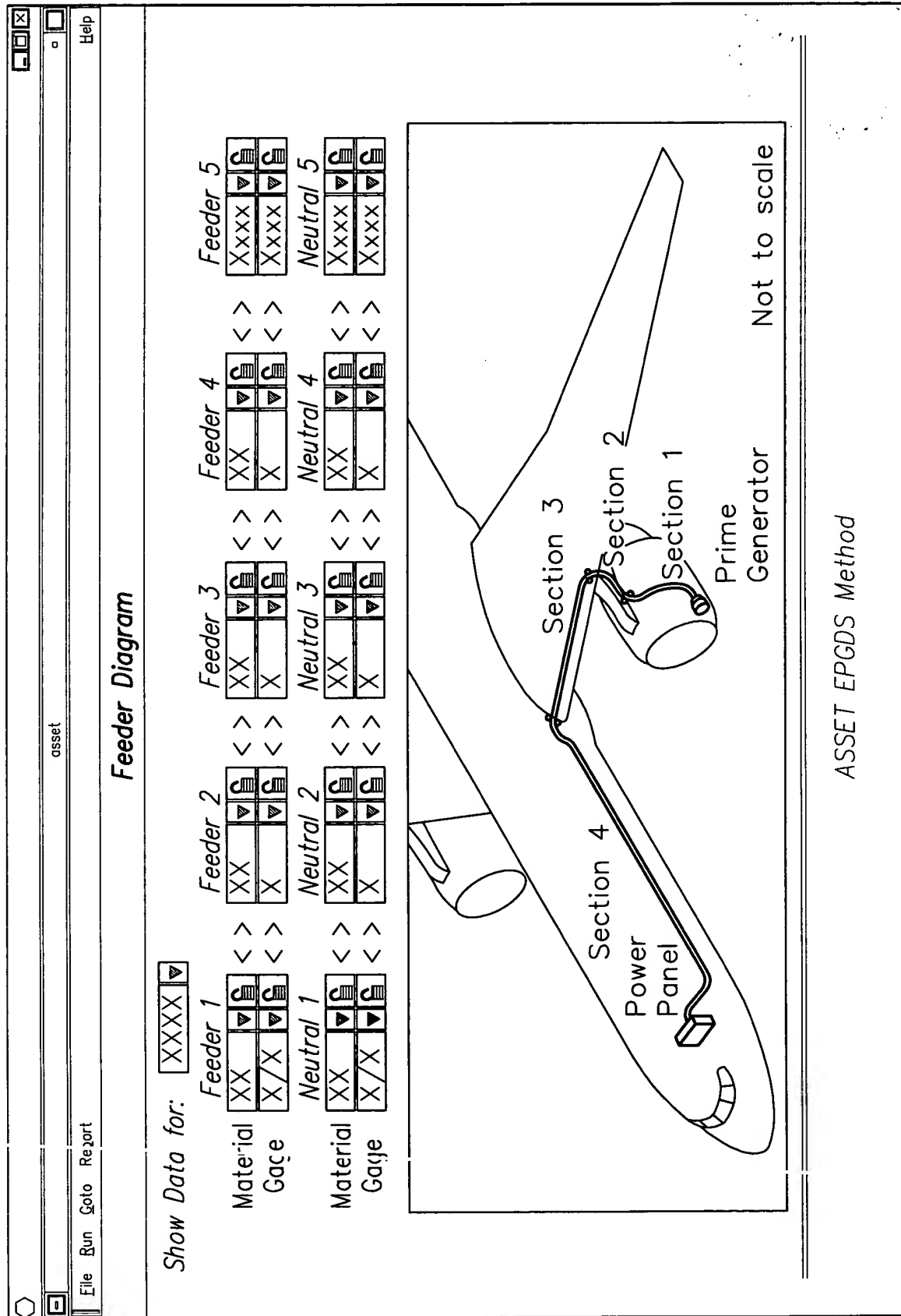


FIG. 31

206010" 22500660

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File Run Goto Report

asset

Help

Feeder Analysis

Show Data for:

	Feeder 1	Feeder 2	Feeder 3	Feeder 4	Feeder 5
Phase Current	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>
Feeder Temperature Rise	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>
Bundle Derating	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>
Sizing Altitude	<input type="text" value="XXXX"/>	<input type="text" value="XXXX"/>	<input type="text" value="XXXX"/>	<input type="text" value="XXXX"/>	<input type="text" value="XXXX"/>
Altitude Derating	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>	<input type="text" value="X.XXX"/>
Ambient Temperature	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>
Feeder Temperature	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>
Max Wire Temperature	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>	<input type="text" value="XXX.X"/>
Temperature Margin	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>	<input type="text" value="XX.X"/>
Feeder Length	<input type="text" value="X.XX"/>	<input type="text" value="XX.XX"/>	<input type="text" value="XX.XX"/>	<input type="text" value="XX.XX"/>	<input type="text" value="X.XX"/>

Maximum Voltage Drop

VOLTS

Total Voltage Drop

VOLTS

Voltage Drop Margin

VOLTS

ASSET EPGDS Method

FIG. 32

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Help

Wire Type & Weight

Show Data for:

Wire Type, Feeder 1:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Wire Type, Neutral 1:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Wire Type, Feeder 2:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Wire Type, Neutral 2:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Wire Type, Feeder 3:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Wire Type, Neutral 3:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Wire Type, Feeder 4:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Wire Type, Neutral 4:	<input type="text" value="XXX XX-XX XXXX X"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Wire Type, Feeder 5:	<input type="text" value="XXX XX-XX XXXX XX"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Wire Type, Neutral 5:	<input type="text" value="XXX XX-XX XXXX XX"/>	<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Feeder 1:		<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Neutral 1:		<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Feeder 2:		<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Neutral 2:		<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Feeder 3:		<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Neutral 3:		<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Feeder 4:		<input type="text" value="XX.X"/>	<input type="text" value="LB"/>
Neutral 4:		<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Feeder 5:		<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Neutral 5:		<input type="text" value="X.X"/>	<input type="text" value="LB"/>
TRU Feeder Weight		<input type="text" value="X.X"/>	<input type="text" value="LB"/>
Total Wire Weight		<input type="text" value="XX.X"/>	<input type="text" value="LB"/>

ASSET EPGDS Method

FIG. 33

[illegible]

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Reports

Help

Panel Technology Selection

Technology Factors:

Backplane

ELMS

Other

X.XX

X.XX

X.XX

ASSET EPGDS Method

FIG. 34

FIG. 35

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System Acquisition Costs	
System Acquisition Cost, Base Year (per fleet)	X. <input type="text"/> DOLLARS
System Support Equipment Cost, Base Year (per fleet)	X. <input type="text"/> DOLLARS
System Initial Training Cost, Base Year (per fleet)	X. <input type="text"/> DOLLARS
System Acquisition Cost per Airplane per Year	XXXX. <input type="text"/> DOLLARS

ASSET EPGDS Method	

FIG. 37

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Fuel Costs					
Fuel cost per Gallon, Base Year	X.XX				DOLLARS
Lbs Fuel Burned/Flight Hour/Lb Additional Weight	X.XXXX				HRS^-1
System Weight (per airplane)	XXX.X				LB
System Direct Horsepower Requirement (per airplane)	X.				HP
System Drag Horsepower Requirement (per airplane)	X.				HP
System Cooling Horsepower Requirement	X.				HP
System Pound of Fuel per Block Trip (per airplane)	X.				LB
Average Fuel Inflation Rate Beyond Present Year	X.XXX				%
Fuel Cost (NPV of Life Cycle Cost)	XXXXXX.				DOLLARS
Fuel Cost per Airplane per Year	XXXX.				DOLLARS
ASSET EPGDS Method					

FIG. 38

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206010-22500660

Spares Costs	
Cost/Spare Unit, Base Year	XXXXXX. DOLLARS
Spares Holding Factor	X.XX %
Shop Turnaround Time in Days	XX.X DAYS
Main Base Fill Rate (must be less than 1)	X.XX HRS
Mean Time Between Unscheduled Removals	XXXXX. HRS
Mean Time Between Overhauls	X. HRS
Number of Spares Required	X.
Initial Spares Cost	XXXXXXX. DOLLARS
Spares Holding Cost (NPV of Life Cycle Cost)	XXXXXXX. DOLLARS
Spares Cost (NPV of Life Cycle Cost)	XXXXXXX. DOLLARS
Spares Cost per Airplane per Year	XXXX. DOLLARS

ASSET EPGDS Method

FIG. 39

Line Maintenance Costs			
Direct Labor Rate per Hour	XX.XX		DOLLARS/HOUR
Maintenance Labor Burden Factor	X.X		
Mean Time Between Unscheduled Removals	XXXXX.		HRS
Line Labor Hours Required per Removal	X.X		HRS
Line Labor Hours per Maintenance Action (Non-Removal)	X.X		HRS
Maintenance Actions per 1000 Flight Hours (Non-Removal)	X.XX		HRS^-1
Line Maintenance Cost (NPV of Life Cycle Cost)	XXXXX.		DOLLARS
Line Maintenance Cost per Airplane per Year	XXX.		DOLLARS

ASSET EPGDS Method

206010" 22500660

APPROVED	TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND	
BY	O.G. FIG.	EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS
RAFTSMAN	CLASS	SUBC.

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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Shop Maintenance Costs	
Direct Labor Rate per Hour	XX.XX DOLLARS/HOUR
Maintenance Labor Burden Factor	X.X
Mean Time Between Unscheduled Removals	XXXXX. HRS
Main Generator Mean Time Between Failures	XXXXX. HRS
Mean Time Between Overhauls	X. HRS
Shop Labor Man-Hours per Unconfirmed Failure (Test Time)	X.X HRS
Shop Labor Man-Hours per Failure (Repair and Test)	XX.X HRS
Shop Labor Hours per Overhaul	X.X HRS
Average Shop Material Cost per Failure, base year	XXXXX. DOLLARS
Overhaul Materials Cost per Overhaul	X. DOLLARS
Shop Maintenance Cost (NPV of Life Cycle Cost) XXXXXXX. DOLLARS	
Shop Maintenance Cost per Airplane per Year XXXXX. DOLLARS	
ASSET EPGDS Method	

FIG. 41

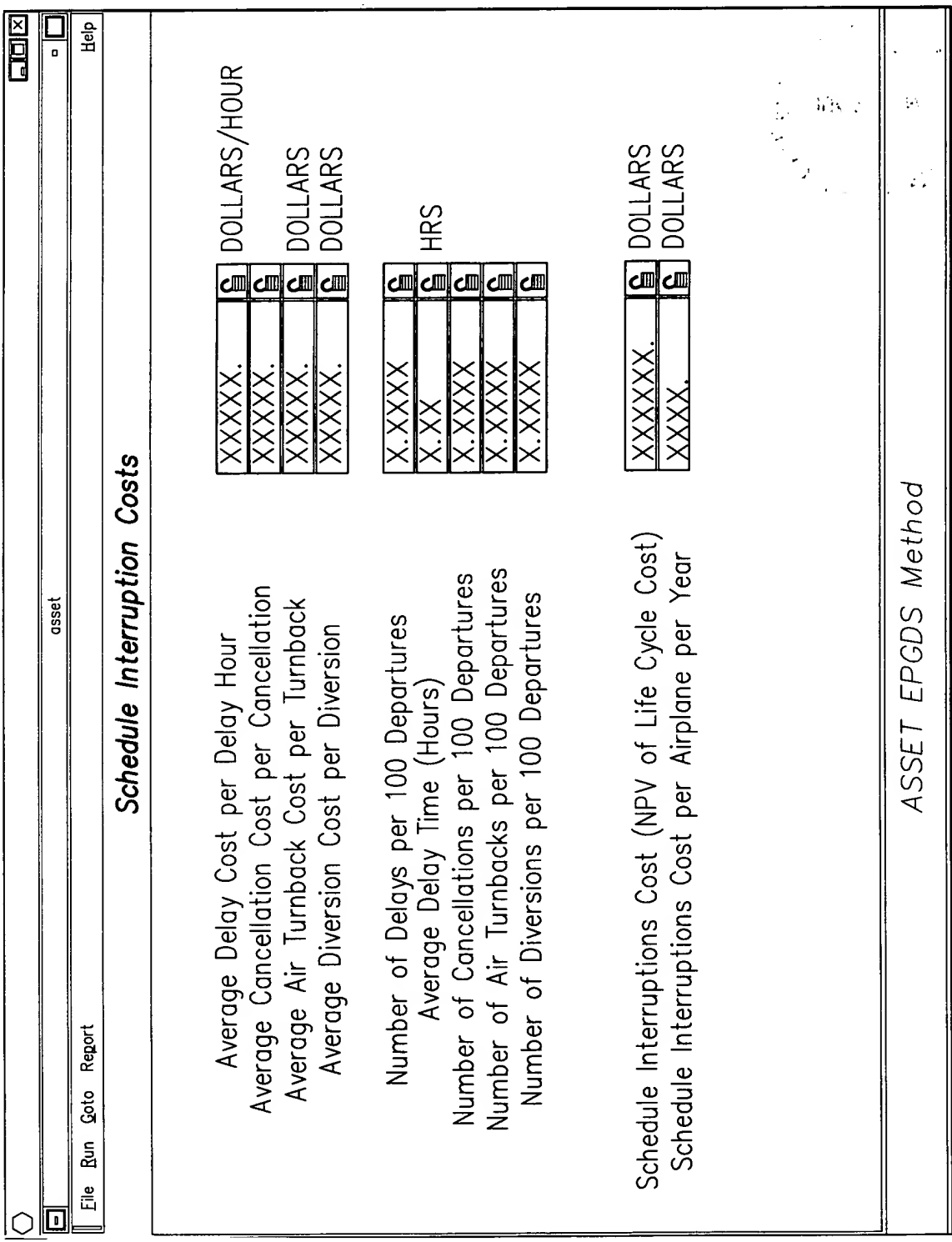
206010" 22500660

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Scheduled Maintenance Costs					
Direct Labor Rate per Hour	XX.XX				DOLLARS/HOUR
Maintenance Labor Burden Factor	X.X				
Mean Time Between Unscheduled Removals	XXXXX.				HRS
Schedule Maintenance Inspection Man Hours per 1000 Flight Hours	X.X				
Rectification Man Hours per 1000 Flight Hours	X.X				
Scheduled Maintenance Material Dollars per 1000 Flight Hours	X.XX				HRS^-1
Scheduled Maintenance Cost (NPV of Life Cycle Cost)	XXXXXXXX.				DOLLARS
Scheduled Maintenance Cost per Airplane per Year	XXXX.				DOLLARS
ASSET EPGDS Method					

FIG. 42

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206070" 22500650

APPROVED BY CRAFTSMAN

O.G. TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND CLASS EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION S COMPONENTS
INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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Dependability Cost Summary

83a

Line Maintenance Cost
Shop Maintenance Cost
Scheduled Maintenance Cost
Schedule Interruptions Cost
Spares Cost
Fuel Cost

NPV of Life Cycle Cost

83b

Per Airplane per Year

DOLLARS
DOLLARS
DOLLARS
DOLLARS
DOLLARS
DOLLARS

Dependability Cost

DOLLARS

83

ASSET EPGDS Method

FIG. 44

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asset
Help

Airplane Parameters

Application

Max total thrust/Eng

Thrust/GW ratio

Airplane Type

Number of Passengers

Range

LB	KTS	DB	Reliability Inputs	NM
XXXXXX.	XXX.	X	Reliability	XXXX.
XXX.	XXX.	X	Maintainability	XXXX.
XXX.	XXX.	X	Dependability Cost	XXXX.
XXX.	XXX.	X	Reliability	XXXX.
XXX.	XXX.	X	Main Power Reliability	XXXX.
XXX.	XXX.	X	Backup Power Reliability	XXXX.
XXX.	XXX.	X	Standby Power Reliability	XXXX.
XXX.	XXX.	X	ECDC Power Reliability	XXXX.

FIG. 45

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Reliability Inputs					
Average Flight Hours per Flight		X.XX	IFSD Rates (per 1000 flight hours)		
LRU MTBF's					
Main Generator MTBF		XXXXXX.	Engine In-flight Shutdowns per 1000 hours	X.XXX	HRS^-1
APU Generator MTBF		XXXXXX.	APU In-flight Shutdowns per 1000 hours	X.XXX	HRS^-1
VSCF Backup Generator MTBF					
Generator Control Unit (GCU) MTBF		XXXXXX.	Failure to Start Probabilities		
Backup Converter MTBF		XXXXXX.	APU No-Start Probability	X.XXX	
Generator Control Breaker (GCB) MTBF		XXXXXX.	Probability of RAT Unavailable when Required	X.Xe-XX	
Other Failure Rates (per flight hour)					
Main Air Turbine MTBF		XXXXXX.	Rate of Other Channel Faults	X.Xe-XX	HRS^-1
RAT Gen. Control Unit MTBF		XXXXXX.	Main Generator Shaft Shear Rate	X.Xe-XX	HRS^-1
Permanent Magnet Generator(PMG) MTBF		XXXXXX.	Backup Generator Shaft Shear Rate	X.Xe-XX	HRS^-1
Main and APU Battery MTBF		XXXXXX.			
Main and APU Battery Charger MTBF		XXXXXX.			
ASSET EPGDS Method					

FIG. 46

206010" 22500660

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND
O.G. FIG. EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION S COMPONENTS

BY

CLASS SUBC

INVENTOR: BOND, et al.

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ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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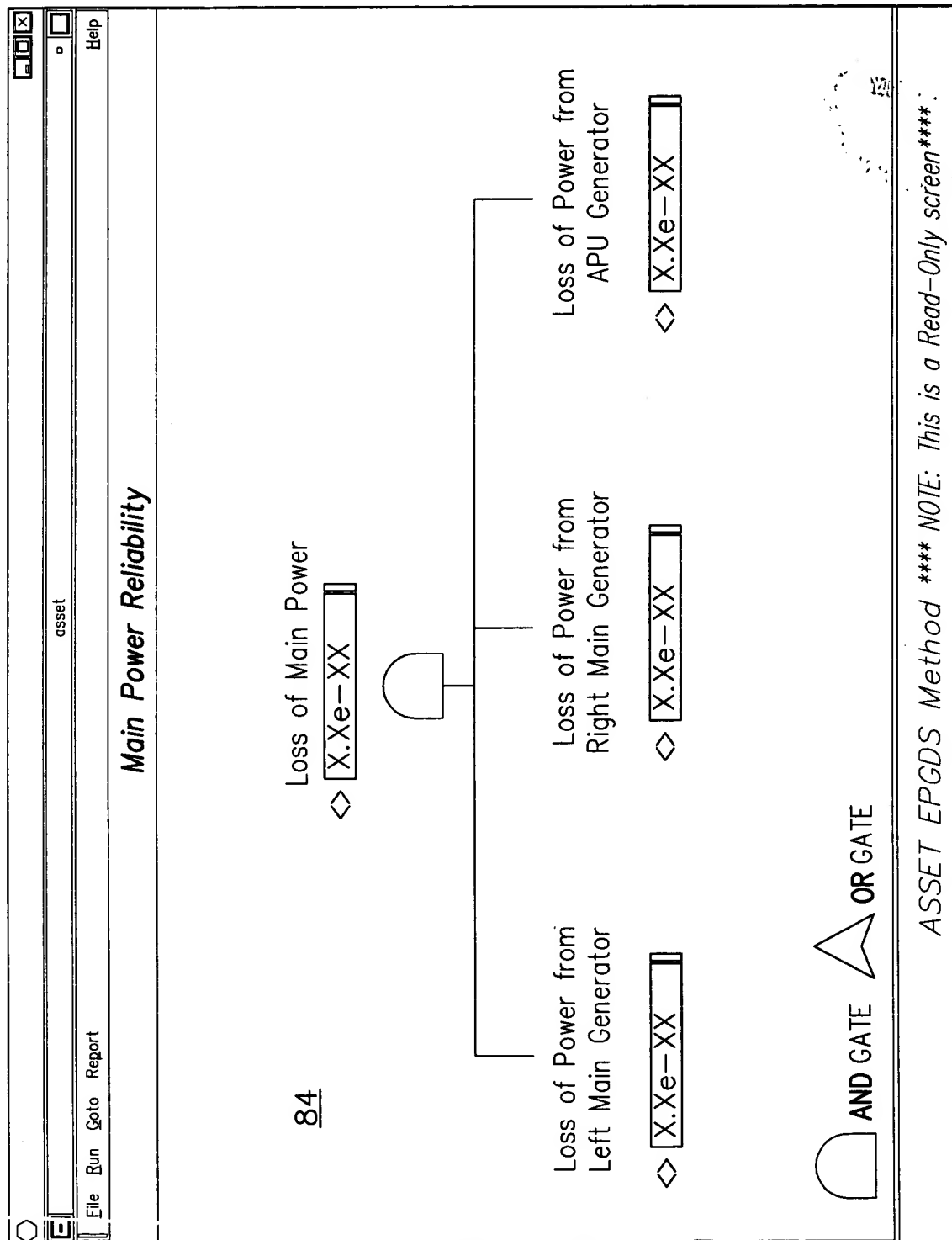


FIG. 47

206010-22500660

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND
EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS

APPROVED	O.G. FIG.	
BY	CLASS	SUBC
RAFTSMAN		

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

54/87

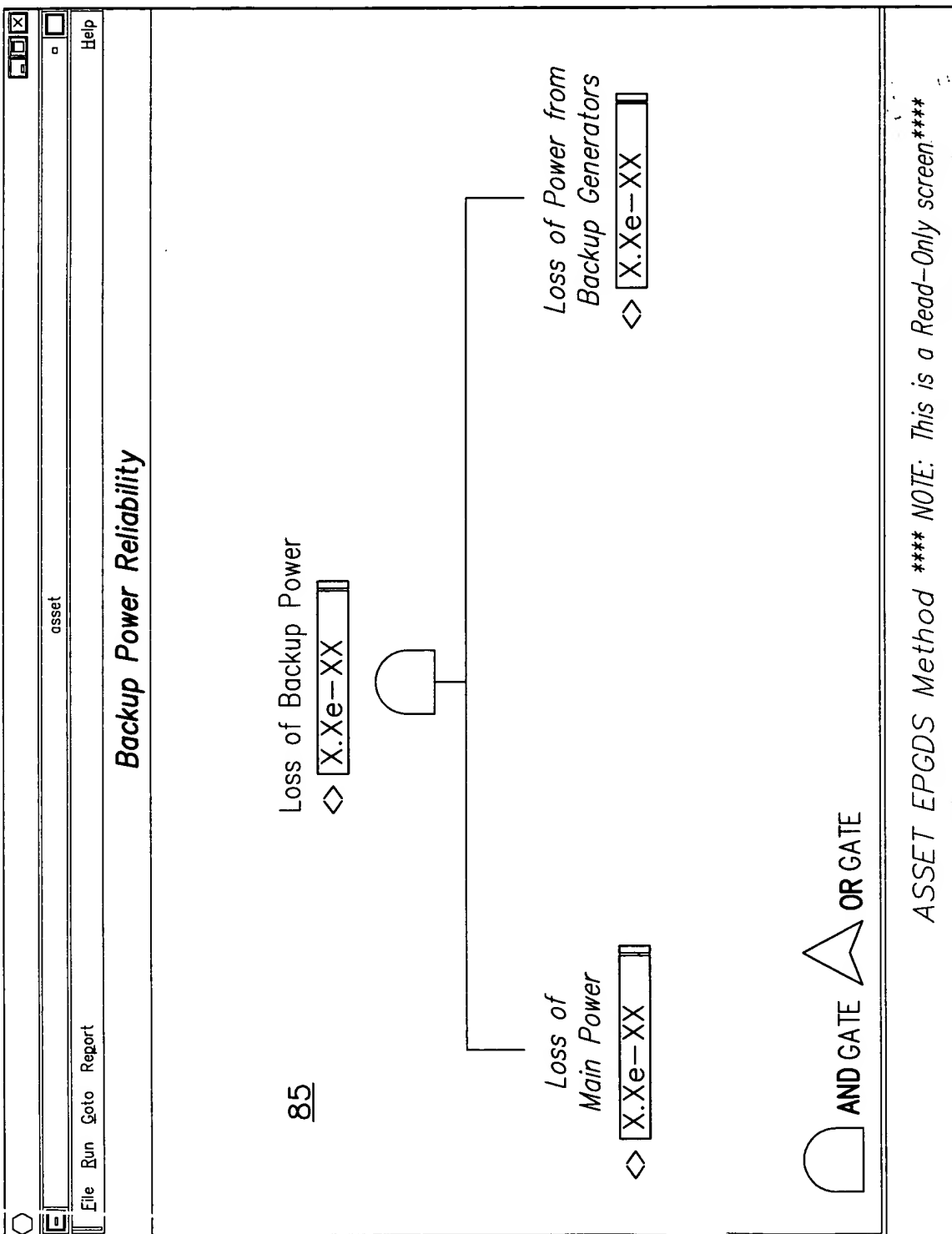


FIG. 48

206070" 22500660

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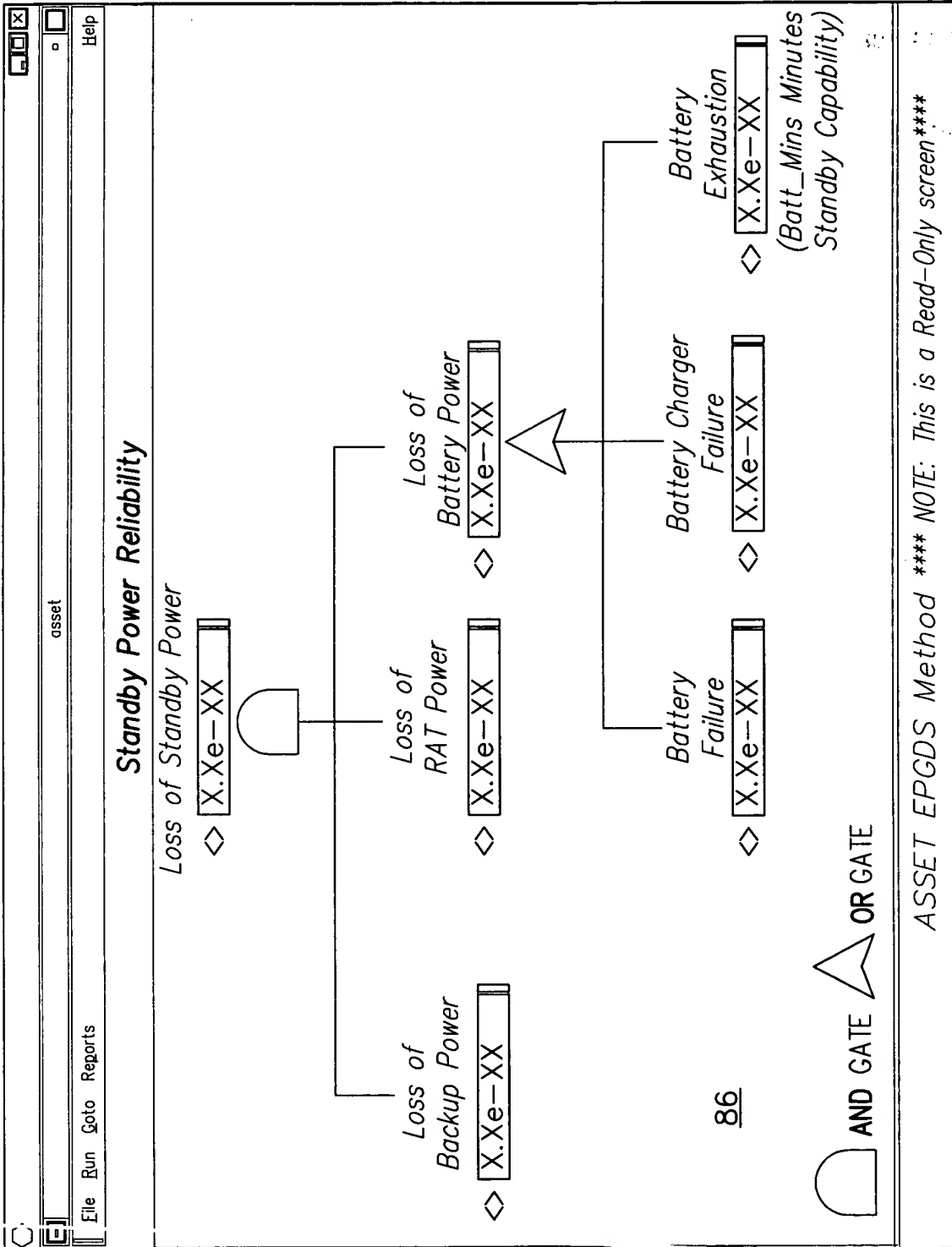


FIG. 49

206010" 22500660

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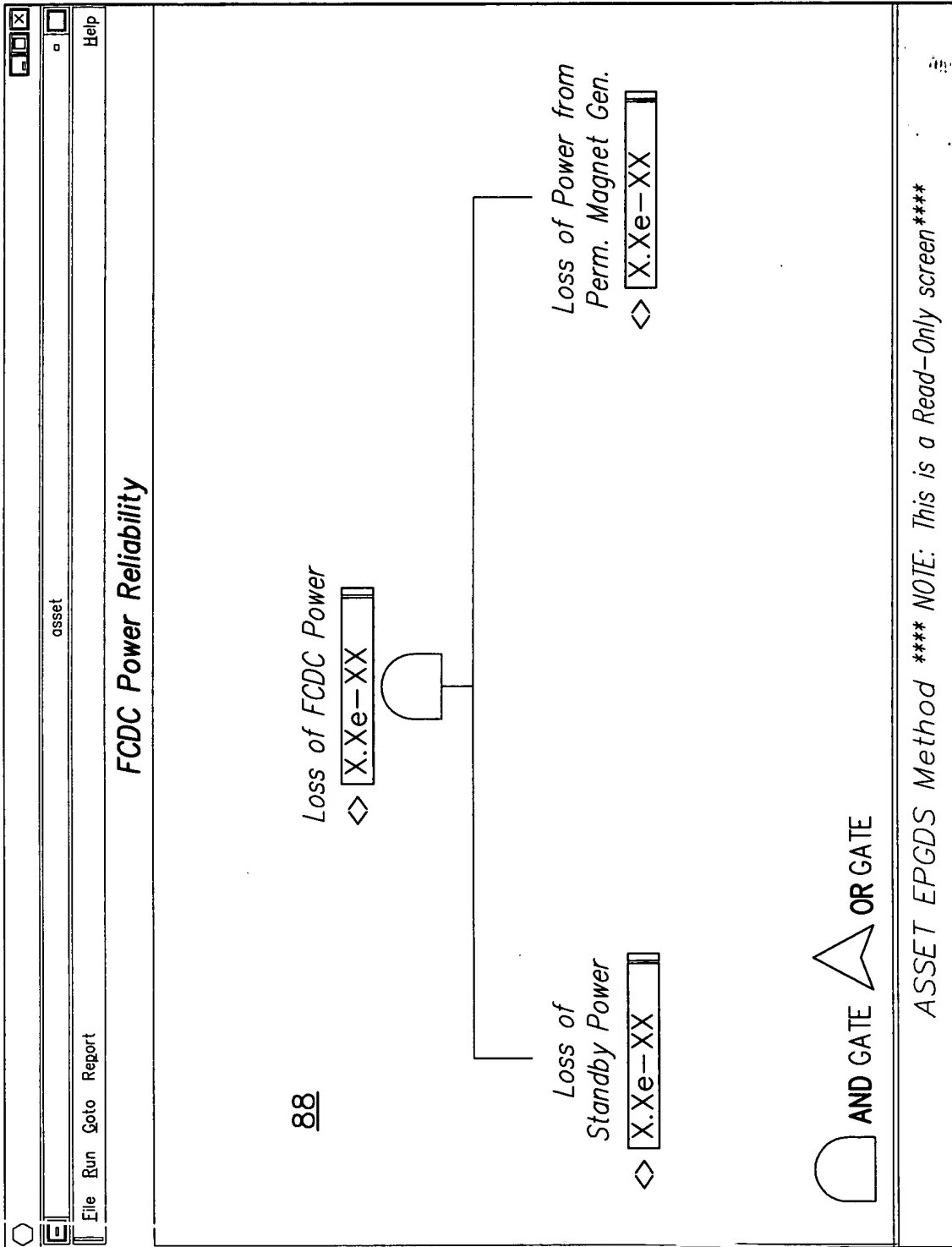


FIG. 50

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Maintenance Times			
	Unscheduled Removals	Servicing	Alignment & Adjustment
Frequency (Flight Hours)			
Mean Time Between Unscheduled Removals	XXXXXX	XXX.	XXXX
Maintenance Interval			
Maintenance Corrective Times (Flight Hours)			
Main Generator Unscheduled Removal Access Time	X.XX	X.XX	X.XX
Main Generator Unscheduled Removal Fault Isolation Time	X.XX		
Repair / Removal & Replace Time	X.XX		
Main Generator Unscheduled Removal Servicing Time	X.XX	X.XX	
Main Generator Unscheduled Removal Alignment & Adjustment Time	X.XX		X.XX
Main Generator Unscheduled Removal Checkout / Verification Time	X.XX		X.XX
Main Generator Unscheduled Removal Closing UpTime	X.XX	X.XX	X.XX
Main Generator Unscheduled Removal Mean Corrective Time	X.	X.	X.
ASSET EPGDS Method			
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FIG. 52

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asset				Help
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Preparation Times				
Maintenance Preparation Times (Flight Hours)				
Main Generator Unscheduled Removal Maintenance Coordination Time	X.XX	◇	X.XX	◇ X.XX
Main Generator Unscheduled Removal Dispatch Delay Time	X.XX			
Main Generator Unscheduled Removal Airplane Ferrying Time	X.XX			
Main Generator Unscheduled Removal Supply Delay Time	X.	◇	X.XX	◇ X.XX
Main Generator Unscheduled Removal Spares & Equipment Issuing Time	X.XX			◇ X.XX
Main Generator Unscheduled Removal Transport Delay Time	X.XX			
Main Generator Unscheduled Removal Maintenance Delay Time	X.XX	◇	X.XX	◇ X.XX
Main Generator Unscheduled Removal Maintenance Preparation Time	X.	◇	X.	◇ X.
ASSET EPGDS Method				
92				

FIG. 53

2060T0" 22500660

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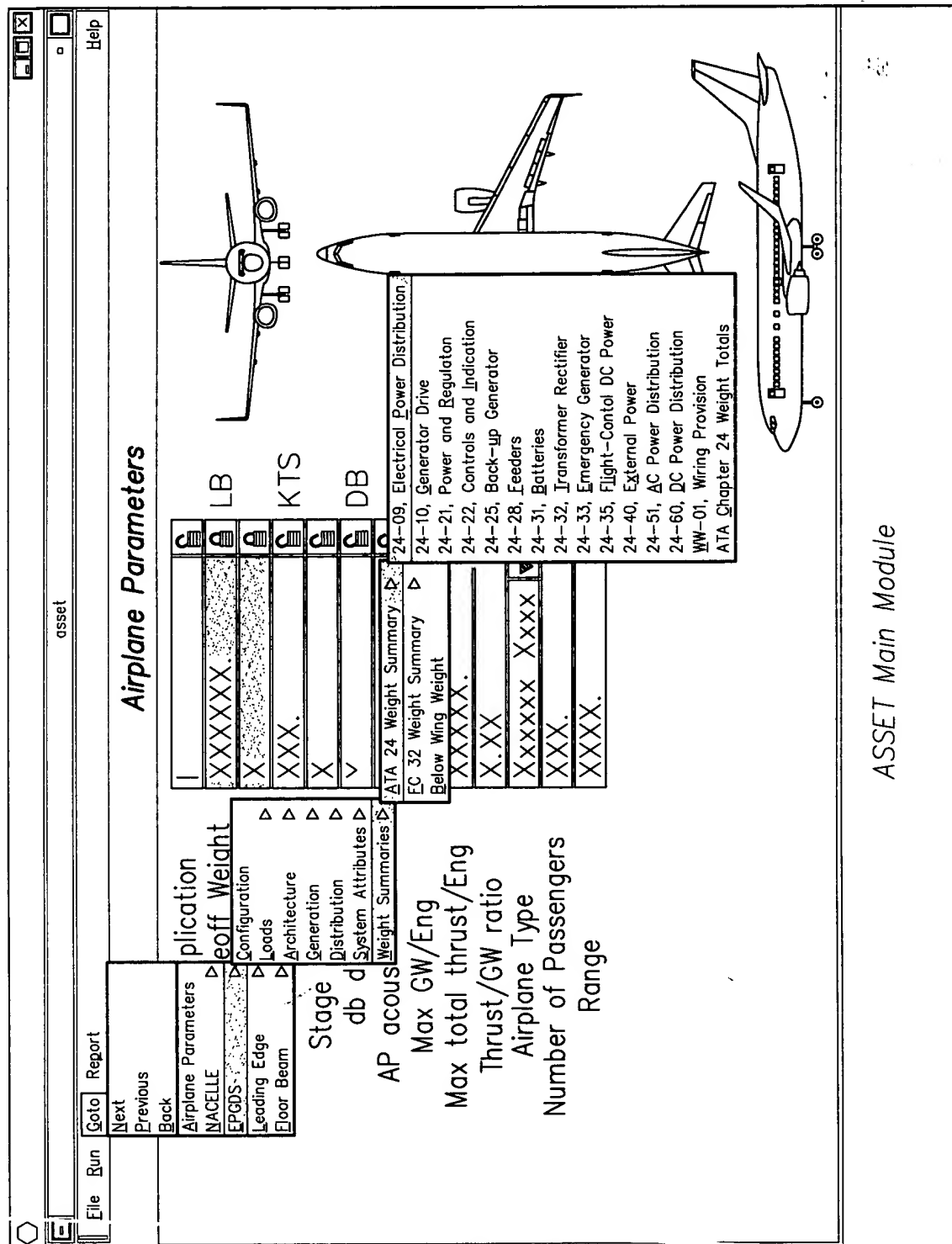


FIG. 55

206010" 22500660

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24-09, Electrical Power Distribution											
Component #		Component Designation			Quantity		Unit Wt.		Subtotal		
<>	P100	<>	Left Primary Power Panel		<>	X	XX.X	LB<>	XX.X	LB	
<>	P110	<>	Left Mgmt Power Panel		<>	X	XXX.X	LB<>	XXX.X	LB	
<>	P200	<>	Right Primary Power Panel		<>	X	XX.X	LB<>	XX.X	LB	
<>	P210	<>	Right Mgmt Power Panel		<>	X	XXX.X	LB<>	XXX.X	LB	
<>	P300	<>	Auxiliary Power Panel		<>	X	XX.X	LB<>	XX.X	LB	
<>	P310	<>	Stby Power Mgmt Panel		<>	X	XXX.X	LB<>	XXX.X	LB	
<>	P320	<>	Ground Hdq/Svs Distribution Panel		<>	X	XX.X	LB<>	XX.X	LB	
<>		<>			<>	X	X.X	LB<>	X.X	LB	
<>		<>			<>	X	X.X	LB<>	X.X	LB	
<>		<>			<>	X	X.X	LB<>	X.X	LB	
<>		<>			<>	X	X.X	LB<>	X.X	LB	
<>		<>			<>	X	X.X	LB<>	X.X	LB	
<>		<>			<>	X	X.X	LB<>	X.X	LB	
<>		<>			<>	X	X.X	LB<>	X.X	LB	
<>		<>			<>	X	X.X	LB<>	X.X	LB	
ATA 24-09, Electrical Power Distribution										XXX.X	LB
ASSET EPGDS Method											

FIG. 56

[illegible][illegible]

FIG. 57

FIG. 58

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
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姓名	性别	年龄	籍贯	职业	住址	电话	备注
王德胜	男	45	山东	教师	XX路XX号	XXXX	
李小明	男	30	江苏	医生	XX街XX号	XXXX	
张小红	女	25	浙江	护士	XX巷XX号	XXXX	
赵国强	男	50	河南	工人	XX村XX号	XXXX	
刘丽娟	女	35	湖北	会计	XX路XX号	XXXX	
陈伟华	男	40	广东	工程师	XX街XX号	XXXX	
周美玲	女	28	四川	记者	XX巷XX号	XXXX	
吴大伟	男	55	安徽	农民	XX村XX号	XXXX	
孙小芳	女	32	江西	售货员	XX路XX号	XXXX	
郑志远	男	48	福建	干部	XX街XX号	XXXX	
马海燕	女	22	广西	学生	XX巷XX号	XXXX	
徐建国	男	52	湖南	工人	XX村XX号	XXXX	
黄小华	女	38	山西	教师	XX路XX号	XXXX	
林志强	男	42	陕西	医生	XX街XX号	XXXX	
周小红	女	27	甘肃	护士	XX巷XX号	XXXX	
吴大刚	男	53	青海	工人	XX村XX号	XXXX	
孙小丽	女	31	宁夏	会计	XX路XX号	XXXX	
郑志华	男	49	新疆	工程师	XX街XX号	XXXX	
马海燕	女	23	内蒙古	学生	XX巷XX号	XXXX	
徐建国	男	51	吉林	工人	XX村XX号	XXXX	
黄小华	女	37	辽宁	教师	XX路XX号	XXXX	
林志强	男	41	黑龙江	医生	XX街XX号	XXXX	
周小红	女	26	河北	护士	XX巷XX号	XXXX	
吴大刚	男	54	山东	工人	XX村XX号	XXXX	
孙小丽	女	30	河南	会计	XX路XX号	XXXX	
郑志华	男	50	湖北	工程师	XX街XX号	XXXX	
马海燕	女	24	湖南	学生	XX巷XX号	XXXX	
徐建国	男	52	广东	工人	XX村XX号	XXXX	
黄小华	女	36	广西	教师	XX路XX号	XXXX	
林志强	男	43	四川	医生	XX街XX号	XXXX	
周小红	女	29	重庆	护士	XX巷XX号	XXXX	
吴大刚	男	56	贵州	工人	XX村XX号	XXXX	
孙小丽	女	33	云南	会计	XX路XX号	XXXX	
郑志华	男	51	陕西	工程师	XX街XX号	XXXX	
马海燕	女	25	甘肃	学生	XX巷XX号	XXXX	
徐建国	男	53	宁夏	工人	XX村XX号	XXXX	
黄小华	女	39	内蒙古	教师	XX路XX号	XXXX	
林志强	男	44	吉林	医生	XX街XX号	XXXX	
周小红	女	30	辽宁	护士	XX巷XX号	XXXX	
吴大刚	男	57	河北	工人	XX村XX号	XXXX	
孙小丽	女	34	山东	会计	XX路XX号	XXXX	
郑志华	男	52	河南	工程师	XX街XX号	XXXX	
马海燕	女	26	湖北	学生	XX巷XX号	XXXX	
徐建国	男	54	湖南	工人	XX村XX号	XXXX	
黄小华	女	40	广东	教师	XX路XX号	XXXX	
林志强	男	45	广西	医生	XX街XX号	XXXX	
周小红	女	31	四川	护士	XX巷XX号	XXXX	
吴大刚	男	58	重庆	工人	XX村XX号	XXXX	
孙小丽	女	35	贵州	会计	XX路XX号	XXXX	
郑志华	男	53	云南	工程师	XX街XX号	XXXX	
马海燕	女	27	陕西	学生	XX巷XX号	XXXX	
徐建国	男	55	甘肃	工人	XX村XX号	XXXX	
黄小华	女	41	宁夏	教师	XX路XX号	XXXX	
林志强	男	46	内蒙古	医生	XX街XX号	XXXX	
周小红	女	32	吉林	护士	XX巷XX号	XXXX	
吴大刚	男	59	辽宁	工人	XX村XX号	XXXX	
孙小丽	女	36	河北	会计	XX路XX号	XXXX	
郑志华	男	54	山东	工程师	XX街XX号	XXXX	
马海燕	女	28	河南	学生	XX巷XX号	XXXX	
徐建国	男	56	湖北	工人	XX村XX号	XXXX	
黄小华	女	42</					

[illegible]

FIG. 59

FIG. 60

2060FO"22500660

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24-28, Feeders					
Component #	Component Designation	Quantity	Unit Wt.	Subtotal	
<>	Gen_Fdrs	<>	<>	XX.X	LB
<>	Gen_Fdrs	<>	<>	XX.X	LB
<>	Gen_J	<>	<>	XX.X	LB
<>	Gen_J	<>	<>	XX.X	LB
<>	Gen_C	<>	<>	XX.X	LB
<>	Gen_C	<>	<>	XX.X	LB
<>	APU_Fdrs	<>	<>	XX.X	LB
<>	APU_C	<>	<>	XX.X	LB
<>	APU_J	<>	<>	XX.X	LB
<>		<>	<>	X.X	LB
<>		<>	<>	X.X	LB
<>		<>	<>	X.X	LB
<>		<>	<>	X.X	LB
ATA 24-28, Feeders					XXX.X LB
ASSET EPGDS Method					

FIG. 61

[illegible]

FIG. 62

[illegible][illegible]

FIG. 64

FIG. 65

INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
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[illegible][illegible]

FIG. 66

[illegible][illegible]

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[illegible][illegible]

FIG. 68

[illegible]

FIG. 69

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ATA Chapter 24 Weight Totals	
ATA 24-09, Electrical Power Distribution	XXX.X LB
ATA 24-10, Generator Drive	XXX.X LB
ATA 24-21, Power and Regulation	XXX.X LB
ATA 24-22, Controls and Indication	XX.X LB
ATA 24-25, Back-up Generators	XXX.X LB
ATA 24-28, Feeders	XXX.X LB
ATA 24-31, Batteries	XXX.X LB
ATA 24-32, Transformer Rectifier	XX.X LB
ATA 24-33, Emergency Generator	XXX.X LB
ATA 24-35, Flight-Control DC Power	XXX.X LB
ATA 24-40, External Power	XX.X LB
ATA 24-51, AC Power Distribution	XXX.X LB
ATA 24-60, DC Power Distribution	XX.X LB
WW-01, Wiring Provision	XXX.X LB
Electrical Power Generation & Distribution System	XXXX.X LB
ASSET EPGDS Method	

FIG. 70

206010" 22500660

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asset

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Airplane Parameters

MACELLE

EPCDS

Leading Edge

Floor Beam

Application

Max GW/Eng

Max total thrust/Eng

Thrust/GW ratio

Airplane Type

Number of Passengers

Range

Weight

Configuration

Loads

Architecture

Generation

Distribution

System Attributes

Weight Summaries

Stage

db d

AP acous

ATA 24 Weight Summary

FC 32 Weight Summary

Below Wing Weight

XXXXX.

X.XX

XXXXXX XXXX

XXX.

XXXX.

FC 32-01, AC Power System

FC 32-02, DC Power System

FC 32-03, Airframe Lighting

FC 32-04, Electrical Equipment and Supports

FC 32-05, Indication & Misc. Elec. Systems

FC 32-06, Cargo Panels

FC 32-07, Pwr Phi-W/B Assy/Hldg Ignk

FC 32-08, Elec Load Mgmt Sys (ELMS)

FC 32-10, Electrical Sys. Cntrl/Indication

FC 32-23, ARINC 629-Cardfiles, BPCU, GCU, FSCF, ELMS

FC 32-92, Eng/Strut Wiring Instl/Airplane

FC 32-95, HIRF Protection-Electrical

FC 32-97, EBU Wire Bundle Assemblies

LB

KTS

DB

XXXXXX.

X.

XXX.

X

X

ATA 24 Weight Summary

FC 32 Weight Summary

Below Wing Weight

XXXXX.

X.XX

XXXXXX XXXX

XXX.

XXXX.

FC 32-01, AC Power System

FC 32-02, DC Power System

FC 32-03, Airframe Lighting

FC 32-04, Electrical Equipment and Supports

FC 32-05, Indication & Misc. Elec. Systems

FC 32-06, Cargo Panels

FC 32-07, Pwr Phi-W/B Assy/Hldg Ignk

FC 32-08, Elec Load Mgmt Sys (ELMS)

FC 32-10, Electrical Sys. Cntrl/Indication

FC 32-23, ARINC 629-Cardfiles, BPCU, GCU, FSCF, ELMS

FC 32-92, Eng/Strut Wiring Instl/Airplane

FC 32-95, HIRF Protection-Electrical

FC 32-97, EBU Wire Bundle Assemblies

ASSET Main Module

FIG. 71

206010"22500660

APPROVED BY
CRAFTSMAN

C.G. FILE

TITLE: AIRCRAFT SYNTHESIS AND SYSTEMS EVALUATION METHOD FOR DETERMINING AND CLASS EVALUATING ELECTRICAL POWER GENERATION AND DISTRIBUTION SYSTEM COMPONENTS
INVENTOR: BOND, et al.
SN: 09/900,522; FILED 7/6/01
ATTY: MARK D. ELCHUK; PHONE: (248) 641-1229

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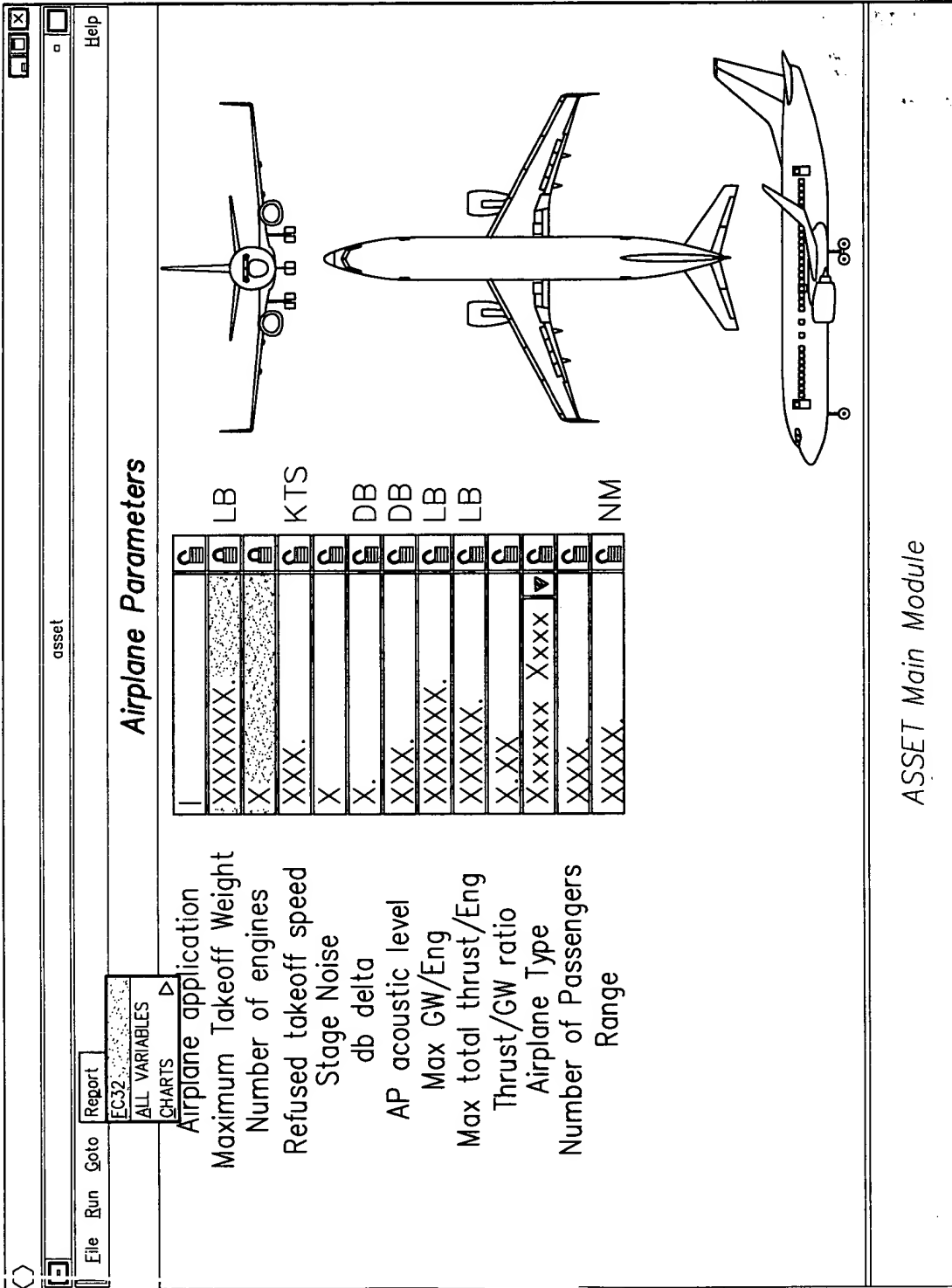


FIG. 72

205010" 22500660

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File Run Goto Report

asset

Help

Airplane application

Maximum Takeoff Weight

XXXXXX.

LB

Airplane Parameters

ASSET: Report

FC 32 Report

Component #	Component Designation	Qty	Unit	Wt (LB)	Su
32	Electrical Power Generation & Distribution System				
32-01	AC Power System	X		XXX.X	
32-01-01	AC POWER GENERATION EQUIPMENT	X		XXX.X	
32-01-01-01	MAIN AC POWER GENERATORS INSTLD	X		XX.X	
32-01-01-01-01	PRIME DRIVE GENERATOR	X		X.X	
32-01-01-01-02	QUICK ATTACH DETACH (QAD)	X		XX.X	
32-01-01-01-03	GENERATOR FLUIDS	X		X.X	
32-01-01-01-05	HARDWARE INSTALLATION	X		X.X	
32-01-01-01-06	WIRING INSTALLATION	X		X.X	
32-01-01-02	GENERATOR CONTROL UNITS	X		XX.X	
32-01-01-06	BUS POWER CONTROL UNITS	X		XXX.X	
32-01-05	EROPS-VSCF POWER GENERATION SYSTEM	X		XX.X	
32-01-05-01	VSCF GENERATORS & OIL	X		XX.X	
32-01-05-01-01	VSCF GENERATOR	X		XX.X	
32-01-05-01-02	VSCF GENERATOR OIL	X		X.X	

Return

send to printer

save to file

ASSET Main Module

FIG. 73

206010" 22500560

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File Run Goto Report

asset

Help

Airplane application

Maximum Takeoff Weight

XXXXXX.

LB

Airplane Parameters

ASSET: Report

AC_Stdbby_Load	AC Standby Load	[0][0][0]
AGen_MTBf	APU Generator MTBF	[0][0][0]
APA	Airplane application	[0][0][0]
APUG_Cap	APU Generator Capacity	[0][0][0]
APUG_Cap_As_Built	APU Generator Capacity	[0][0][0]
APUG_Wt	APU Generator Weight	[0][0][0]
APU_Batt_Cap	Nominal Capacity	[0][0][0]
APU_Batt_Chgr_Cap	Output Capacity	[0][0][0]
APU_Batt_Chgr_Wt	Battery Charger Weight	[0][0][0]
APU_Batt_Chgr_Wt_As_Built	Battery Charger Weight	[0][0][0]
APU_Batt_Wt	Battery Weight	[0][0][0]
APU_Batt_Wt_As_Built	Battery Weight	[0][0][0]
APU_Ch_Prob	Probability of Lost of APU Generating Channel	[0][0][0]
APU_Feeder	APU Feeder Configuration	[0][0][0]
APU_Feeder	APU Feeder Configuration	[1][0][0]
APU_Feeder	APU Feeder Configuration	[2][0][0]
APU_Feeder	APU Feeder Configuration	[3][0][0]
APU_Feeder	APU Feeder Configuration	[4][0][0]
APU_GCU_Size	APU Generator GCU Size	[0][0][0]
APU_GCU_Wt	Unit Weight	[0][0][0]

Return

send to printer

save to file

95

ASSET Main Module

FIG. 74

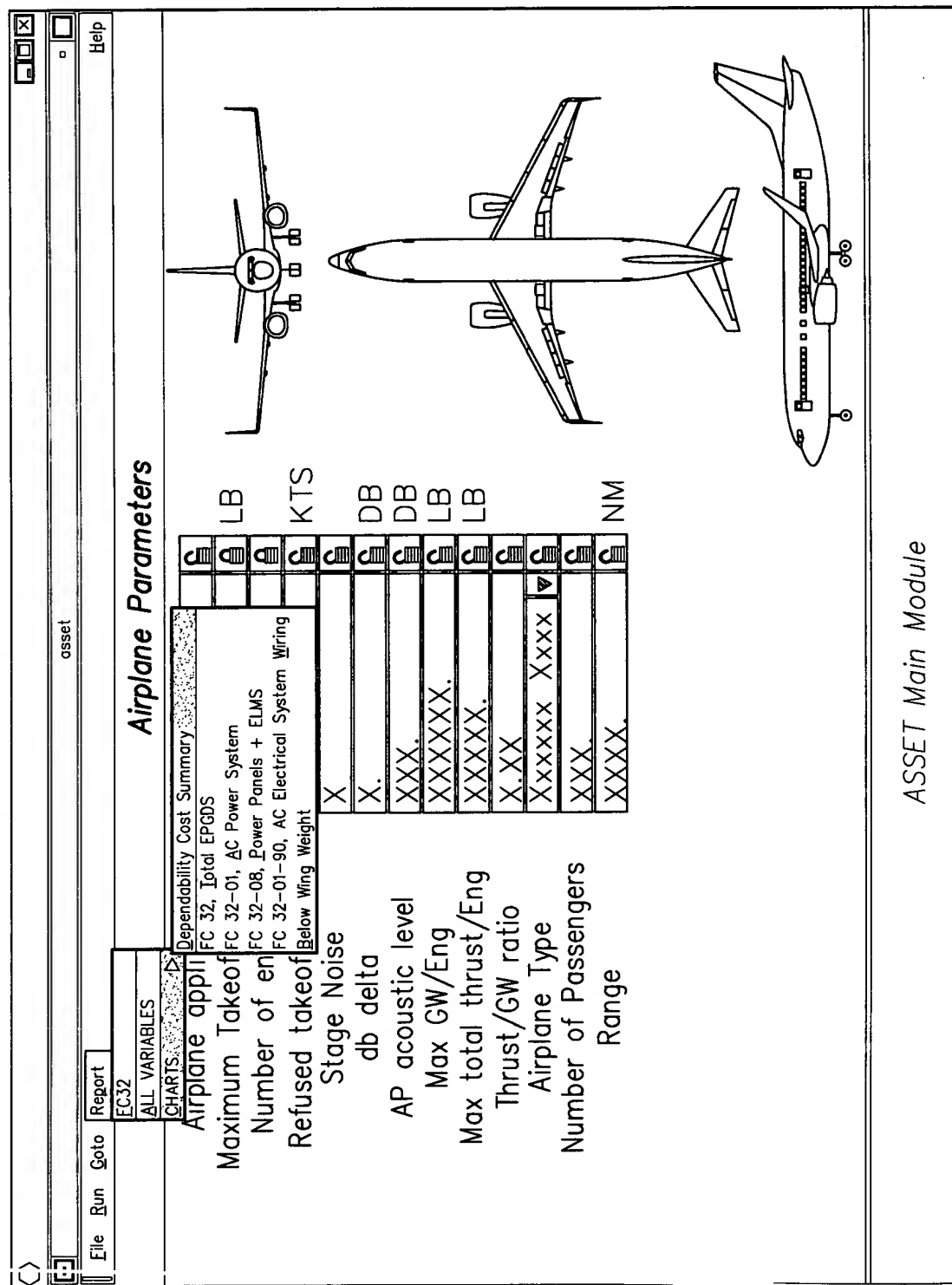


FIG. 75

206070-22500650

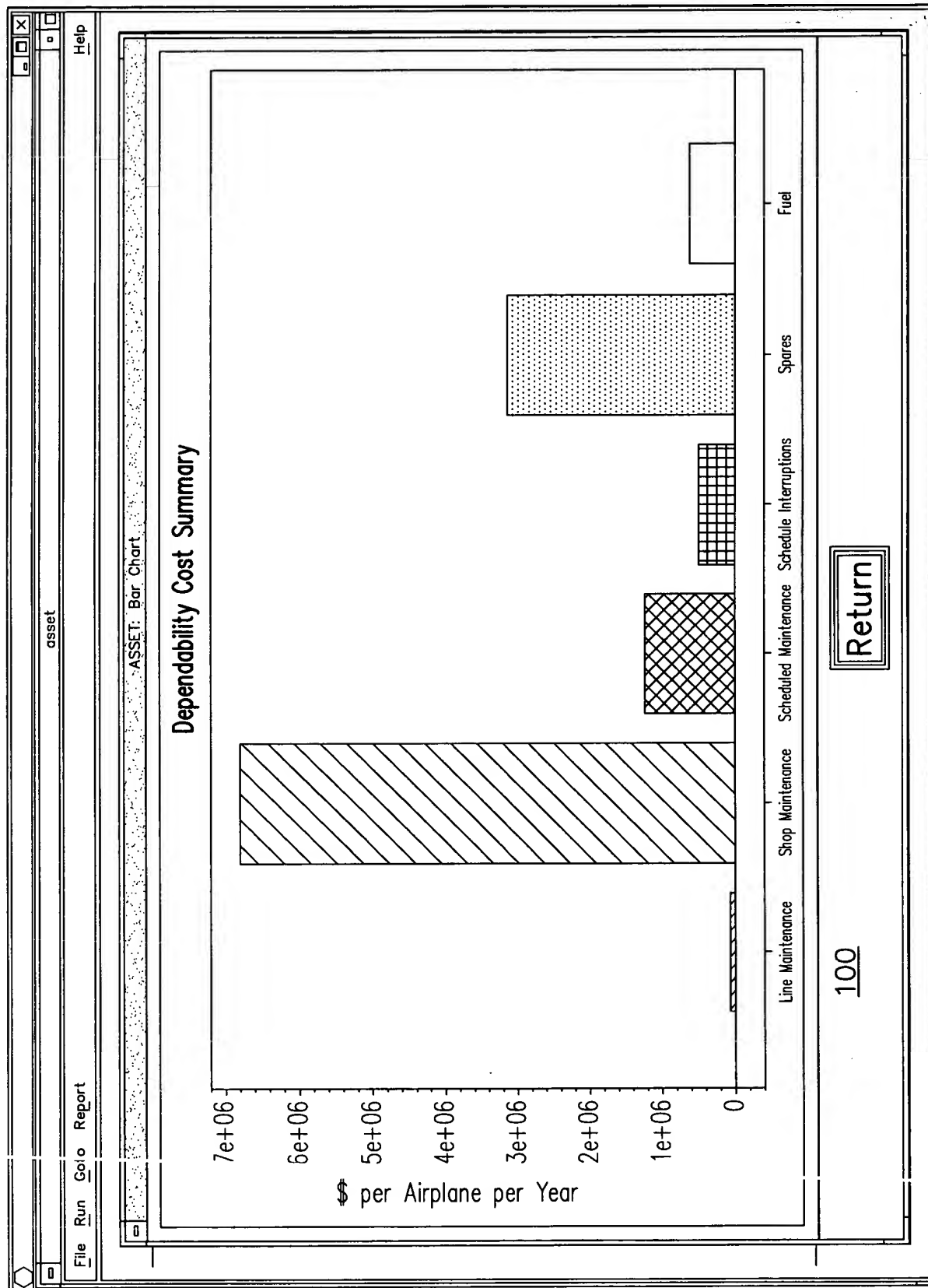


FIG. 76

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206010" 22500660

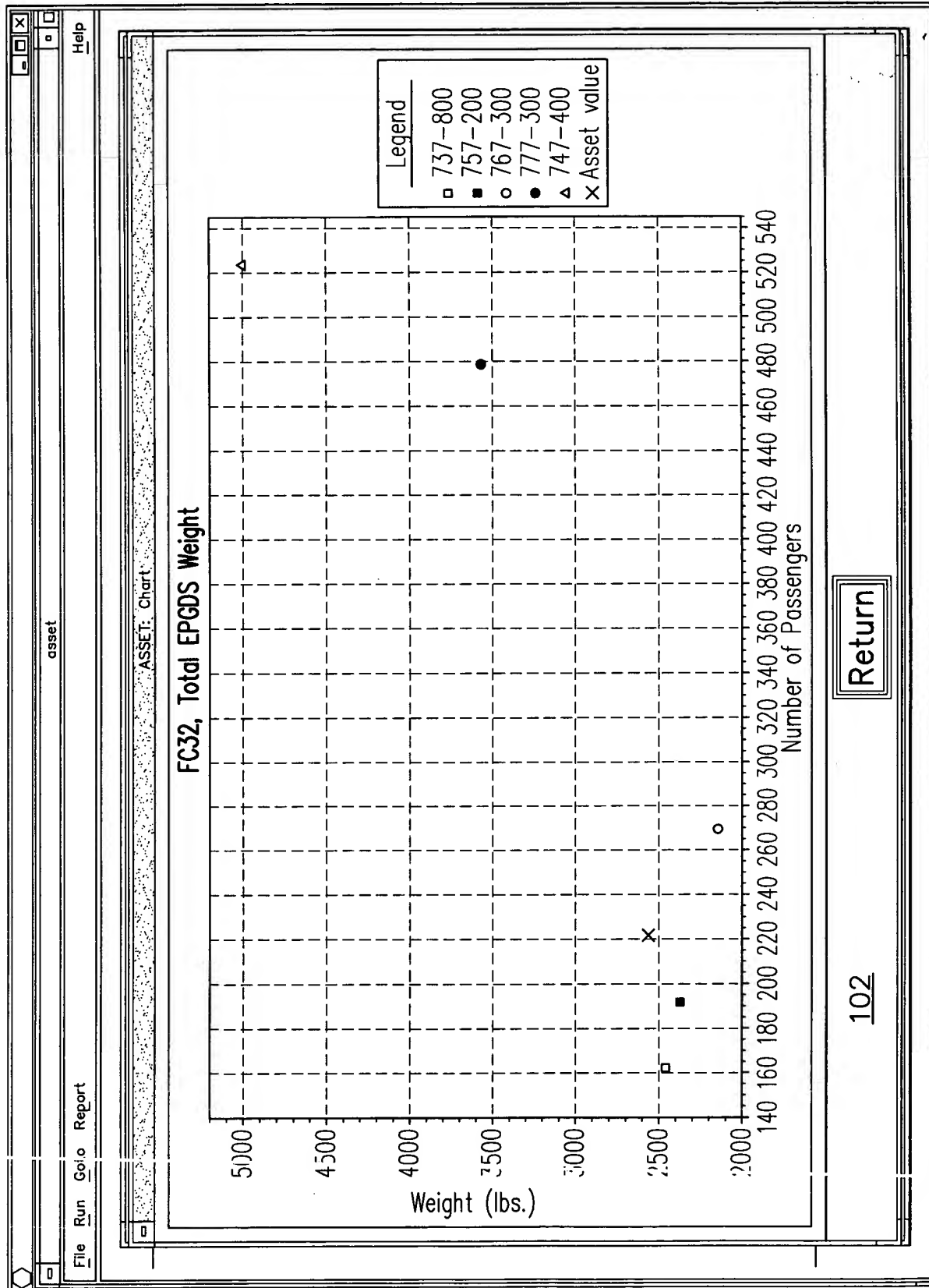


FIG. 77

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205010" 22500660

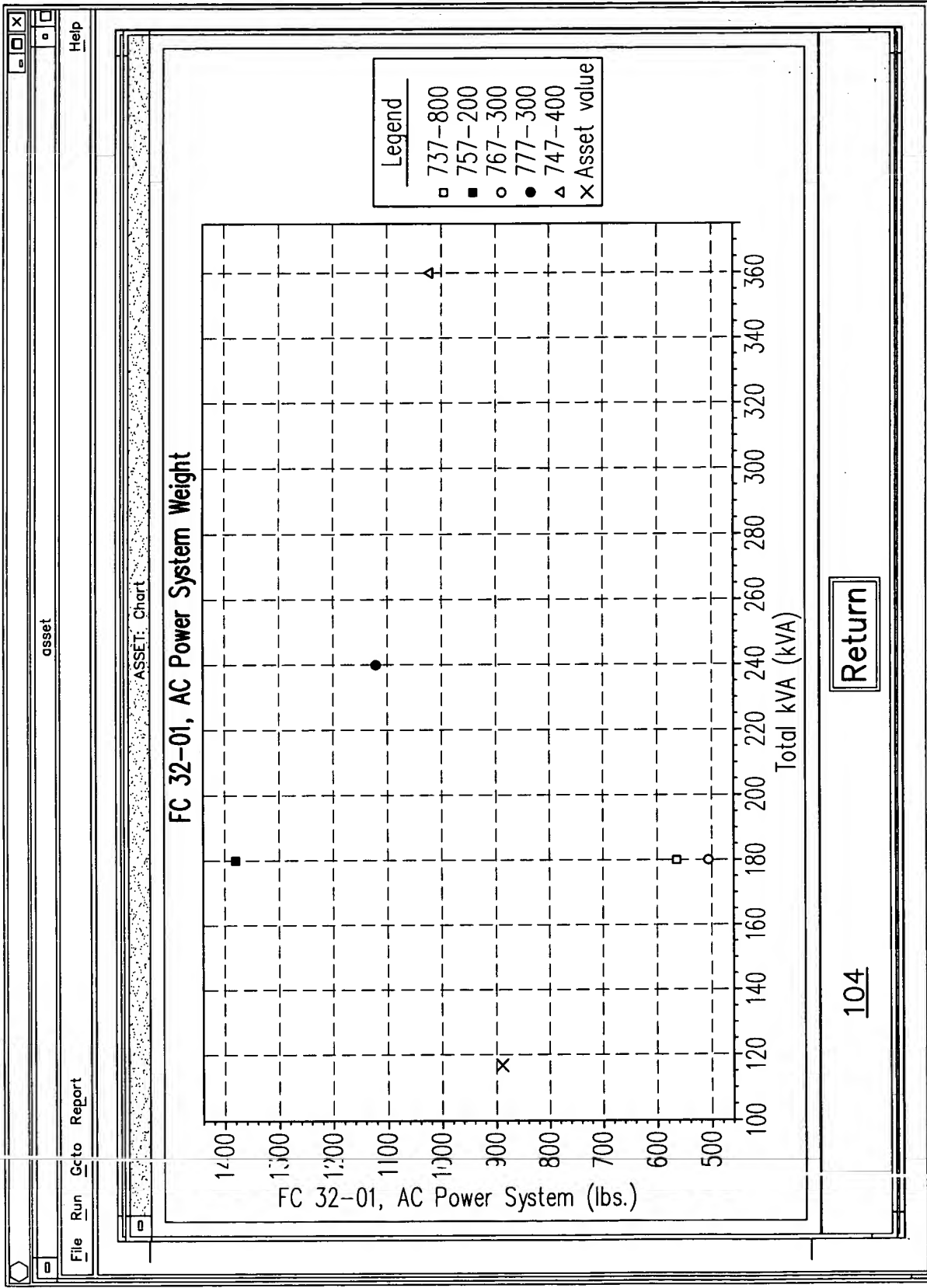


FIG. 78

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206010-22500660

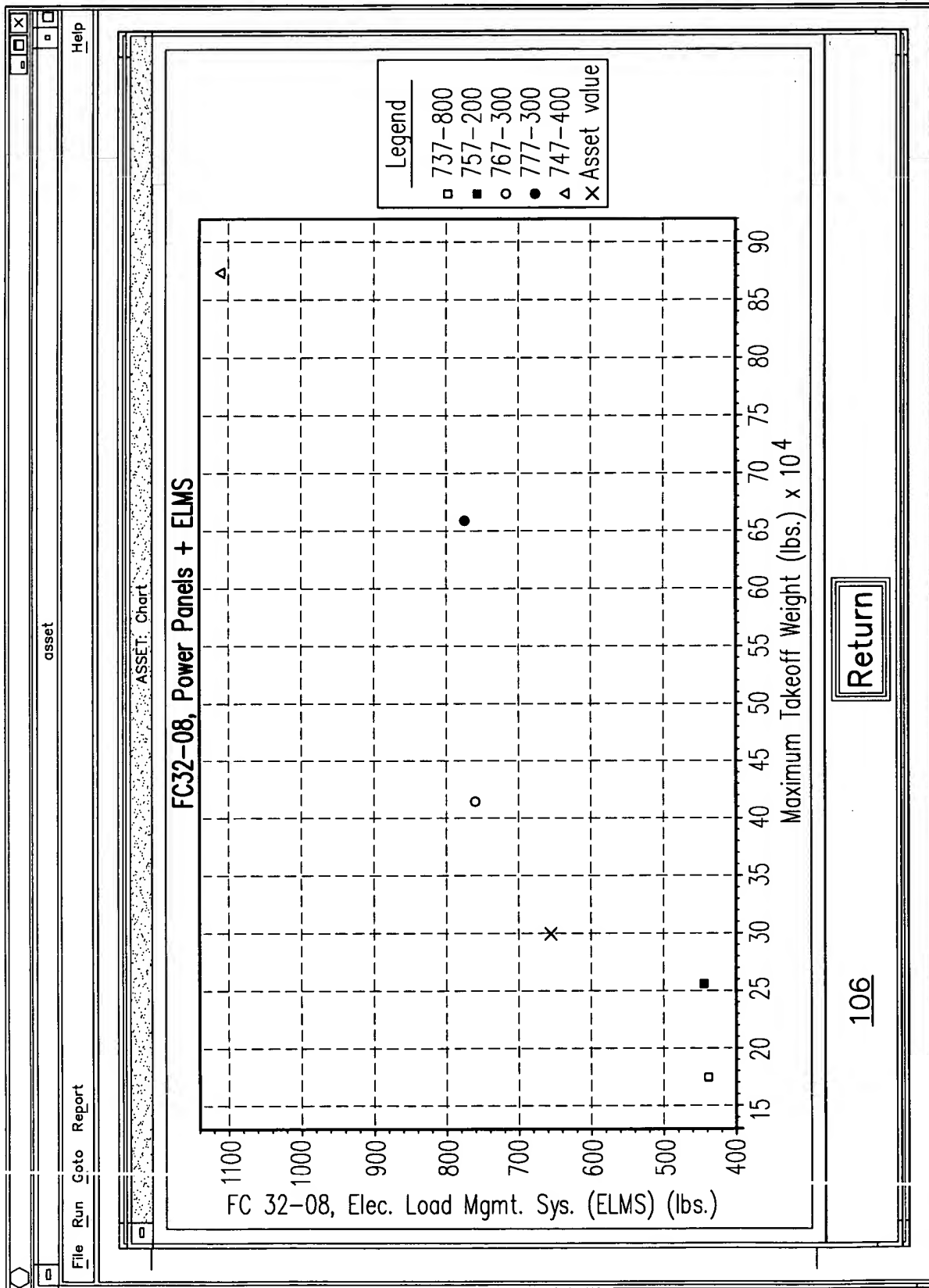


FIG. 79

206010 22500650

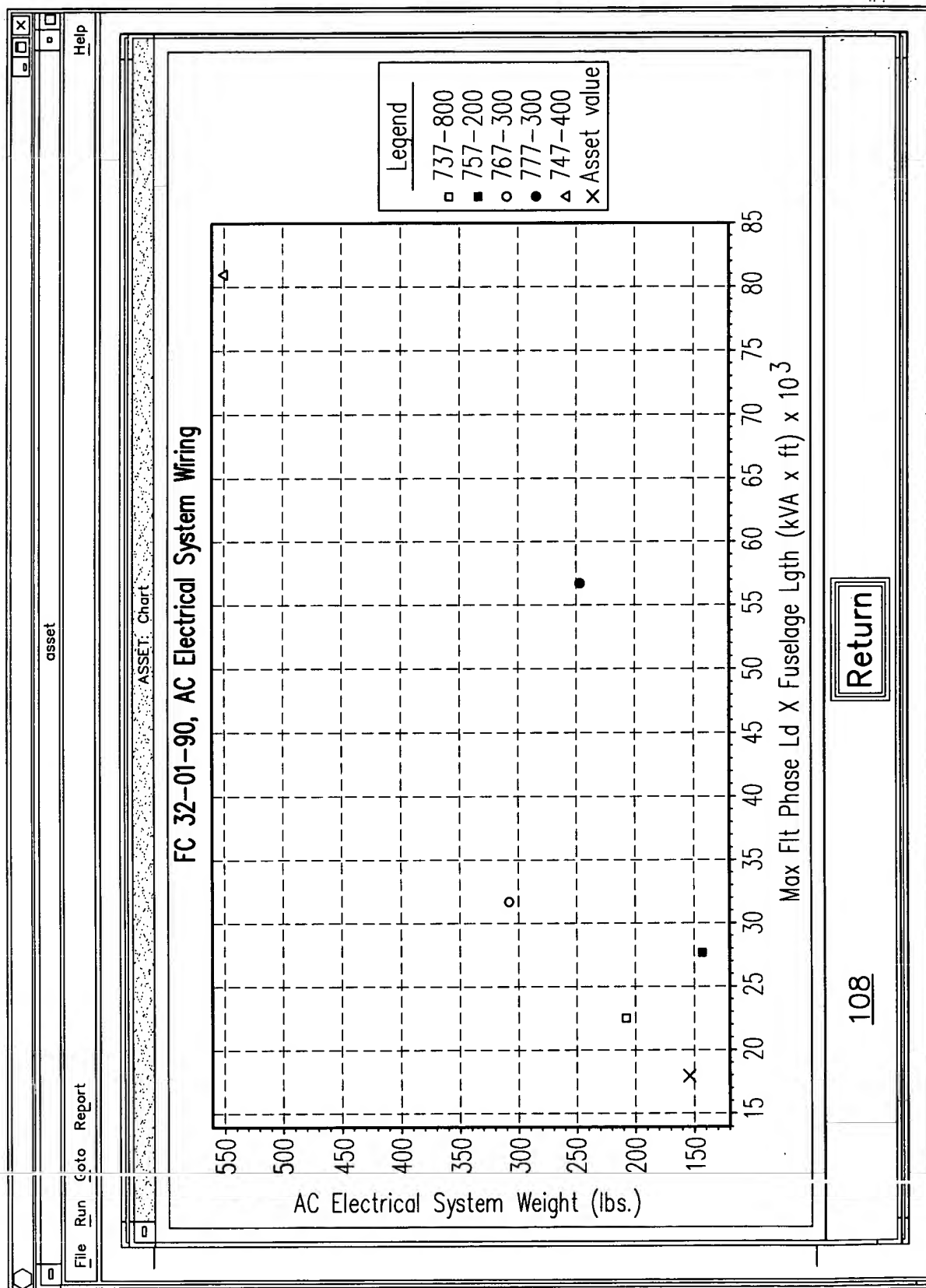


FIG. 80

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asset

File Run Goto Report

ASSET: Chart

Below Wing Weight

Legend

- 737-800
- 757-200
- 767-300
- 777-300
- 747-400
- Asset value

Total Below Wing Weight (lbs.)

Maximum Takeoff Weight (lbs.) $\times 10^4$

Maximum Takeoff Weight (lbs.) $\times 10^4$	Total Below Wing Weight (lbs.)	Asset
15	350	737-800
25	420	757-200
30	500	Asset value
65	480	777-300
85	950	747-400